

1/472

ua1a2

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201 ATAGATCTGG ATCATCTCAG TCAACATCTC GAAGAAGACA GAGGAGCCGG
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351 GAGGCCGCTN CCCSGACACC CTTGACCAGT CGGAAGCGAT CTCGATCAAG
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501 CAGATCTCGG ACCTCACCTG TGAGTAGGAG ACGGTCAAGG TCAGTGATA
551 GGCCTAGATC TCGATCAAGA GCATCCCCAG TGAGTCGAAG GCGATCCAGG
601 T

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1 GAATTCTGTTA TATTTAAAAA CTGCTACTTG TATAAATCTT TCCCAAATAC
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1 GAATTCATCG CACAAAAACC CTGGTATGAA GTCACCTTCC AATGGAATTG
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2/472

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1 GAATTGGGG TGTCTACTG ACTGATATT ATTGATTT ATTCAATTGG
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ua1a6r

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ua1b4f

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3/472

ua1b4r

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ua1b5

1 GAATTCCGGC CGTGCTCCGT CCTTCGCTCC KTGYCCGTC ASRCACTGTG
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4/472

ua1c1

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ua1c6f

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5/472

ua1c6r

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ua1c6f

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6/472

ua1c6r

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ua1d2

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301 CAAGTGTGTTG TTWATTTWAT ACTTTGTGNT TTTTGAGACA GTCACATCAA
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501 CCACTACANA GDAAGNNNNN NCCCGAWYTC

7/472

ua1d4

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ua1e1f

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251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD
301 CC

8/472

ua1e1r

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ua1e1f

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301 CC

ua1e1r

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151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAAGATCT
201 TGTCAGTTA AGCTTGGKCC TCTTYGGCG AGTCTKCCGT TRGGCAAGKB
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301 AGCACAATTG GA

9/472

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251 AATTCTGGAA AGADCCTTCA TGTATGGAAT GTCTCTGDK CAGAGGAGGT
301 NCTCAGCATA

10/472

ua1e3r

1 GGAATTCTTG ACATCTGATC AGGAGTAAAC AGCACACAAA GGGAGTGT
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201 CAGCTTAAGT GACATGAAAT AACTTGGACA AGGTTCAAAC TGAGAGACTG
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ua1e6f

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351 MCGCAYCKCC AGGACCCBC CTGCGMCCCC CC

11/472

ua1e6r

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201 TKBCACTCTC GGTCAATT ACTGTCAGTC CCAGAGTCTT CTTWGCTGT
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12/472

ua1f3r

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151 TGTACTGCAT GTCCCCCCTT CTCTTKCYAC TCTYYGTTCA CATTWGACT
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13/472

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1 GAATTCCCC AGAAAATATA AGGATGCCAT ACACTTATA ATTCTAACAC
51 CATTGATTAA AAAAAAAA AAAGGAAAAA ATGCTGCCAT TTTAATGGCA
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301 TGGCATTTC AAGTGACAGG AAATTCAAMT TTACTTTTC CAAAGGATTG
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14/472

ua1g4r

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15/472

ua1h2f

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ua1h3f

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351 TCTCAGTTA CYDATGAACC AGTYC

16/472

ua1h4

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301 RCMGCACACC CTGAGGGAGCA GGCAGGCANG GCTCTGAAAG CAGAGCATGA
351 TCCAGTCAG GCTCAGGSAG CYTCACAHNN CTGAAGRAAT CATCAGAGTC
401 ACACCTCCCT CGTGTGTACA ACCAGGAAGG AGGATGCTGC ATGAACGCAC
451 TGAGAATTCA TTCAGTGAGA CTCTGAGAAA AGAGCCTGAC ACGTCGAATT
501 CC

ua2h6f

1 GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC
51 TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCAACC
201 CGGGCTCCSA GCTGCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT
251 GAAAAGAGAC GCGTGGGCAC CACCCACAG CAGGTTGCAG ACAGTGATGA
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCT CAAGTCAGGC
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA
451 GATGGGCAAG GGTGCCAAC ACCTCAGTCT GGAGGVGCC AAGAAG

17/472

ua2h6r

1 GGAATTCTTC CTTCTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51 AATAAAAATT TCTTNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC
101 CACCCTNCC CTCTCTAACAA GAAGCAAGGG AGGTTCAGCT TAACAGCCGC
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTG GTCTCTTCC
201 AAATATAAAAT ACATGTGTCA AAAACTKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNCCT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTTTACTG CACACTTGG GGCATKGGGC CCCACCAAGTC
351 TCCTGCYGYCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGGA
401 TWGGTKGGGA GGCTCCCTGG ATGG

ua2h6f

1 GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC
51 TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCAACC
201 CGGGCTCCSA GCTGCCCTG AAGGCCTTG TCACAGGCGC GGGTACCTGT
251 GAAAAGAGAC GCGTGGGCAC CACCCACAG CAGGTTGCAG ACAGTGATGA
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCT CAAGTCAGGC
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA
451 GATGGGCAAG GGTGCCAAAC ACCTCAGTCT GGAGGVGCCA AAGAAG

18/472

ua2h6r

1 GGAATTCTTC CTTCTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51 AATAAAAATT TCTTNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC
101 CACCCTNCC CTCTCTAACAA GAAGCAAGGG AGGTTCAGCT TAACAGCCGC
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTG GTCTCTTCC
201 AAATATAAAT ACATGTGTCA AAACAKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNCCCT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTACTG CACACTTGG GGCATKGGGC CCCACCAGTC
351 TCCTGCYGYCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGTYHHCCCCGGA
401 TWGGTKGGGA GGCTCCCTGG ATGG

ua2h7r

1 CAGGAAATRG GACAGTCTCC AGGCKYCAGA TTGGAGGGAG CRTACCATCA
51 CTTGTTGCAT GGAGTCCCT GTKCCTCCGT GGGGCTCAGG TKGKAAGCTD
101 GCCCCTAWGB CWGAGCATTG BCCCATTCCCT CYGGGGTRG GASCTCSAWA
151 TBYBGCTTTM

19/472

ug1rcon

1 GAATTGGGCC TGCACAGACT TCTGGGATGG CGCTGACATC TACCCTCTGT
51 CGGGTTCAGA CAGAAAGAAA GTGCTGGACT TCTACCAGCG AGCCTGCCTA
101 TCCGGCTATT GCTCTGCCCT TGCCCTACAAG CCCATGAACT GCACGCTGTC
151 CTCTCAGCTC AACGGCAAGT GCATCGAGCT GGTGCAGGTC CCCGGCCAGA
201 ACAGCATATT CACCATGTGC GAGCTGCCA GCACCATCCC CATCAAGCCA
251 AACAAACGCC GCAGCAGCTG GHGCTCCGAT GAAGGGATCG GGGAGGTGCT
301 GGAGAAAGAA GACTGCATGC AGGCCCTGAG CKGTCAGATC TTCAATGGGCA
351 TGGTGTCCCTC CCAGTACCAAG GCCCGGCTGG ACATCGTGCB CCTCATCGAT
401 GGGCTGGTCA AMNCCTGCAT CCGCTTTGTG TACCTTCTCT TTGGAGGATG
451 AGCTCAGGAG CAAGGTGTTT GCAAAAAAAA TGGGCCTGGA RAAAAGGCTG
501 GAAMTBCCAM ATCTCYCTMH MBCCAACCGG TGA

ug2rcon

1 GAATTCAAAA TCACTAACAA CCATAAAAGT AAAAACCCCT TGAGAATTAA
51 AATGAACGAA AATCTATTG CCTCATTCA TACCCCAACA ATAATAGGAT
101 TCCCAATCGT TGTAGCCATC ATTATATTTC CTTCAATCCT ATTCCCATCC
151 TCAAAACGCC TAATCAACAA CCGTCTCCAT TCTTCCAAC ACTGACTAGT
201 TAAACTTATT ATCAAACAAA TAATGCTAAT CCACACACCA AAAGGACGAA
251 CATGAACCCT AATAATTGTT TCCCTAATCA TATTATTGG ATCAACAAAT
301 CTCCTAGGCC TTTTACCAACA TACATTTACA CCTACTACCC AACTATCCAT
351 AAATCTAAGT ATAGCCATTC CACTATGAGC TGGAGCCGTA ATTACAGGCT
401 TCCGACACAA ACTTAAAAAG MTCACTTGCC CACTTCCCTT YCACAAGGGA
451 CTCCAATTTC ACTCAATTCC AATACCTTGA TTAWTATTG AAACAATTAG
501 CCTAWTTTAT TC

20/472

ug3 meld

1 GGAATTCTGT TAAGAAGCAA GAGAGAGAGA GAAAGAGAGA GAGABAYAYA
51 BNYANYANYA NYMNYMNYAB MHWGMRDSAG NNNNNNNNCC TGNNMCAGNC
101 CATNCAGGGG NNNTTTTTT TTTCCNACTT NAGNANCAAG NTGGNNCTGN
151 CTTNCTNNCC AAACCTCCNNA GGNKGNNTT ATTTNAAGGN CTGNAAGNTC
201 GGNTGNCCN CGNCCCNNTG NNTCNACCC NNAGGNCCA AGNAAGNACG
251 NTCTTNCTNC TGNTNTNCCN ACTCTNCNAC ANTAAGNNCC TTNNCATTN
301 NAGNCAAGNT CCNTGGNNAA CTCNTCTNAT NGCTTNNGCN AGNCAGNCTN
351 CTNCCCNNTT NCCCCNACNT GNTGNTNCCA GNSCANCCAT NC GTCCCTAAG
401 GTCATCTCAG CAGACGCTGT ACGATGAGCA CACAGTCTTC CAGTGAAATC
451 CGCCGTGATG GTGATGAGCA GCATCCTCGT GAGAGGAGAT TGATTTGTG
501 GTTACTACGG AGCTTCTCCA AGAGAAGGAT GAGTACAGGA TAGGCAGAGG
551 ATGCCTCTGG GACCCTCGGG GTACATGGCA CTCACACCTC TCATTGCTGT
601 GACAGGACAC CTGACAGAAA TGACCACGTT TCAAACATGT GAGCCTTTTC
651 AGGACATTTT AATAGCAAAT AATGTKGGAA TAGGACATTA AATGGTAGGG
701 CATAAACAGA A

ug4rcon

1 GAATTCTGT GCTTCCACT GTGTGGCTAT TGGGGGGAAG TGCTGTCTTA
51 AGACATTCTG ATGTTCTTA CCAGGTTGT TTTCTTCACA GCCCTAGGAC
101 TGGACAAGAA CAGAGTCATA GAAACTGCTC CTCTCAGTTT CCGAAGCCTG
151 CTAGGTGTAC TTGGTATTGA AGCTGCTCTA GACAGCCTGA TAAGATTGTT
201 CAGTGGAGAT AACAACTAGT CTCCCGCYGG CAAACACACA GGAACATTGC
251 TGGGCTGAGG AACATTCAAAT ATATGTTGAC TATGAGCATT TCTCTTTCC
301 AATTAGAAC CATATCCTTC AGACATGAGT TTGTGTGCAT TAGTGGTATA
351 TTACATATGA ACTCCCAGGG CATAAAAAAA AATMMAGCTA TTAAGATATG
401 TTAATAGTCA ACATATTTG AATGTTCTC AGCCCAGCAA TGTTCTGATG
451 TTTCT

21/472

ug5rcon

1 GAATTCTGA CACATCCTTA TGAAAAGYAA GGGGGTAGTG CTGTCACTCA
51 CATGCCAGTC GCTAAGAATA AGCAGTAACT AGGAATTATT GAGAAGTGCA
101 AWCCYWGTAT THAACAGYT CTKAATCTWC AGAGCCTTAT AGCMAACWAG
151 AAWWGCYWGW AYCTGTAGCA ACTTGGGSCC ACWKATKGGT AGGWCCWYYG
201 TAGTAACAAG AGAGGCACAC ACTTT

ug6rcon

1 GAATTCTTG TATAAGTCAC AAAAATCTAT GATGAAAATA AAACGAACAA
51 ACAAAAAGAA GAAAAGAAAG AGAAAAACAA ACAATACTC CACCACATTA
101 TTCATTCTTA CAGTGAATAC ATAACCTCTA AGTCCATCCT AAGTGTGGCT
151 TTCTTCCTAT ACTGCATCCA TCAGATGTTG TTGCATGTCT GTTAGTCCTA
201 AAATGAACTG ACAAAATATGT CTTCTCTTT TCAGAAATTG AGAGTGAGGT
251 GTAAACATGA GCAGAATAGT CTTTTWAAA TTTTTACCT TAAATCCTG
301 AAGGTATCTT GCAGTTACC CTCCTGCADG GTCAGTGTAA GAACCTTTA
351 ATNGCTATMC ACCATAGG

ug6?con

1 TGNNTCGATG GATCCATCGA GGCTTGCCTT TGTTGCCTTG CTCACCTGTT
51 GATTGCTATA GAGTCCCTGG GGTCCAGGAA CCTGCAAGAG ATGGGGGTGA
101 AGGCCTCCTA TGCATAGGTT CCATATCAGT TGTGTTGCTT GCCTGGTGGC
151 AGCCCACAYT TTGTACCCAC TTCCCTTGCT GGCTCTAGGA GCCTGGAACA
201 TGCTCTTCCC CAGCCTGCCT CTGGCTTCC CTGTGGTCCT ACTCCGTGCC
251 ACAGCACYTG GGAAGTCTTT GTGTACTAAG TCTCCTGATA GCCAGTKSTG
301 CTTTAGARTG TGGCCGCTYC CCACCGCTKG CGGGGACCAT CCATTCTTC
351 TTCCCTCTTC CAGGAAGTTG GAGATA

22/472

ug7rcon

1 GGAATTCCAT TATTAAAAAT TATTAACCAC TCATTCAATTG ACCTACCTGC
51 CCCATCCAAC ATTTCATCAT GATGAAACTT TGGGTCCCTT CTAGGAGTCT
101 GCCTAATAGT CCAAATCATT ACAGGTCTTT TCTTAGCCAT ACACTACACA
151 TCAGATACAA TAACAGCCTT TTCATCAGTA ACACACATT GTCGAGACGT
201 AAATTACGGG TGACTAATCC GATATATACA CGCAAACGGA GCCTCAATAT
251 TTTTTATTTG CTTATTCCCTT CATGTCGGAC GAGGCTTATA TTATGGATCA
301 TATACATTAA TAGAAACCTG AACATTGGA GTACTTCTAC TGTTCGCAGT
351 CATAGCCACA GCATTTATAG GCTACGTCCCT TCCATGAGGA CAAATATCAT
401 TCTGAGGTGC CACAGTTATT ACAAACCTCC TATCAGCCAT CCCATATATT
451 GGAACAAACCC TAGTCGAATG AATTGAGGG GGGCTTCTCA GTAGACAAAG
501 CCACCTTGAC CCGATTCTTC GCTTCCACT TCATCTTACC ATTTATTATC
551 GCGGCCCTAG CAATCGTTCA CCTCCTCTTG CTCCACGAAA CWGGGTCAA
601 CRACCCCACA GGGTTAACT CAGATGCAGA TAAAATTCCA TTTCGCCCT

ug8rcon

1 GAATTCCGGC CTTTTTTAA GGTGTAGGGGA CCACGTGCAA ATTCAGCAC
51 AGACCACAGG TTCTAGGAGG CTCTCTTCGT AAGTTATATC GTCTTCAAG
101 AAATATCAGC CAAAAGAAAG TGGTTTATTA TTTTCTACT TTTCTTGAAC
151 TTGGTAAAAAA AAATAGCCAT CTCTAAATAC TAAAGTATT AAGTCTCAAG
201 TTATATCACT TGGTATCACT TCTGTMCTGT GTTTCTTTC TTTATMCCCA
251 CCCCTTGTT GTCTGGGAGG CCATATGCTC ATKCTGCCAA CDYTGGTCCT
301 GTGTTACCAAG GCTCCAGTGC TCCTCTT

23/472

ug9rcon

1 GAATT CAGAA GGT CCTT TAT CCT CCCT CA AGCA ACT CTT GGTT CCT GT
51 TAG ATC CCT AA CCT GAT CTT MTC AGC AGCT GT CTG TCAGG CAG TCT CCAC
101 CCT GAACC AC CTT CTG AMCT CTY GCC ATCT TTT GCCT AAA CATA CT ATT T
151 MCT TT GGGGG ACT AAG GTTA TGAA CTG AGGG GGG AGT GGSC CTAGG SC CCT
201 TAAGG TAGGC CTT CTW CGGT TCT GGGG ACT AAG AAA ACCA GAA CT TYC CT
251 AAG YTGC CT TGG VAA GCCT AA ATT CC SST ATG CT CCCCC CAA AGCA

ug10rcon

1 GGA ATT CACC ACC ACC ACNA CCT TCAG CT AC TGGA ATGTA CAG TTAC AG
51 TTGAG TAACA GTG AAC CGG AA GGAT TT CTT TCT GGTC GG AT GTG CAG AA
101 CTT GGG AT GT GT AT ATATAA AT ATATA ATA TRTATAA ATA TAT DTA AT NC
151 NGACT TAA AT

ug11rcon

1 GAAT WCG TTC CCAT GTAG GA GGT AAA ACCA ATT CTG GAAG CAT CTN ANN C
51 TTCCATAA AT AACT TAAT W YTTAG CATAA TDAC NGC CTT NGATT GTCT G
101 NAN CT CAG TA GCT ATT AA AT AAC AT CG AGT AAC AT CTG CA TCAGG CHCT C
151 AGA AT AT ACA GTT GAG TT GG GAG TAA ACT G AAA AGAC AAA TGT GTT GAW G
201 DCT ATGCC AN GGG AAT CT ND CT CAA AGC CT AAC ACAG NAD DCAN CTT CAT
251 CCC AGT GAC D AT NYT GGAC G TAC AGAT GGT GAT DG CAA AG GTG TAG AACA
301 CATT TTT CA AAG ACT AA AT CT AAA ACCA GAG TAA AMAT CCG ATG CTC A
351 GAG TTG CAT AAT TT GGAG C TATT CAGG AA TWG CMG AGAA AT GCAT TTT M
401 ACAG AA AT CA AG AT GTT AW W TTT GTAAA CHAW AW WCAC TTAG AMA ACT
451 GTG TT CATT TGCT GTAA WC AG TTT TAAA AGT CAR AT GG AAAA AGC AAC
501 TGA AGT TC CT TG AAAA AT AGA AA AT GT AATT TT

24/472

ug12rcon

1 GAATTCGCGG TGTGGAGGCT GGTGCTGAGG CGCGGGCTGG GCTGGCGAAG
51 GTTGGTGACT TGTGTGCAGC CAGTGAGGCG GGTACACCTGC ANGGGGGCCT
101 TGAATGAAGG CTGCTAGGCG AGATCAGTGA AGAAGGAAGG GGCTTGGGTG
151 GCGGAGGCCG GGGAGAACATCA TGGAGGAAAG ACCNGGBNN NBAGGCTGAT
201 GGGSGGGTTA CTGTAGAACG TGTCCGAGGA ATCTGGAGAA ANGGGAGACC
251 TTNGTTAGA CCGATTTKC AAANCACACTGC CCCTTGTGG AGCTACCCCC
301 CCAAAACCCC TGDNNDGCCC CTGCTACCGA CAATGGGCAG CCTCTGTGG
351 ATGCTCCCTG TCTGTCCAAG CTCTGACCAT CTCTATATCT AGTGCTTGTG
401 CCTAGGTCTG CCTCACTCAT TGAATGGAGG AATGTTCCA GAGTAGGGCC
451 AGGTCTTCTC AAAGTGG

ug13rcon

1 GGAATTCGTT TCATAATATT TATTTTTCA TTTGGGAACG GGGATATTT
51 ATTTAGGAAG GATGGTTCAG CTCTTTAAA TCTTGGGCT CACTGATGGG
101 GTGGGGGGTG GGACACGGGG TTGAAGGAAC TTGAAAGTGG GGAGGAATGG
151 TACTATTGGC ATGGGGGTAC CTGGTATTGA AAATGGACAC ATNHNCYAGC
201 TGAGAGTGAT GTCACTHGCC TGAAACCCA TTATTCTTG GGATGCTGAG
251 GCAGGAGGAT TGAGAGTTAG GGACTAATAA TNRCTAGGTG CTGACAGTAG
301 AACAGGAAGG AGGGTAGAAC CTGAGTTTG TNGCCTCTT TAAA

25/472

ug14rcon

1 GAATTGGAG ACGCTATNCC GCTTCCATCC GTMDCDCAGA CCCTGCCGGA
51 GCCGCTGCCG CAATGGATGA TCGGGAGGAT CTGGTGTACC AGGCGAANST
101 GGCAGAGCAG GCCGAGCGAT ACGACGAAAT GGNTGGAATC AATGAADRAA
151 GTAGCAGGGA TGGACGTKGA GCTGACAGTT GAAGAACGAA ACCTTTWAT
201 CTNGTTGCAT ATNAAAAATG TGATTKGATG CCAGAAGAGC ATCCTGGAGA
251 ATAATCAGCA GCATTGAACA GRAGGAAGAA AACAAAGGGAG GAGAGGACAA
301 WTTAAAGATG ATTGKGAGT TACCGGCAA TGTTGAAAH CTGAGBYTCA
351 AGTTAATCTG TTGTGAACAT TCTGGATGTA CTGGACAAAC ACCTCATTCC
401 AG

ug15rcon

1 GAATTCGAGA AGACTTACAG TGGTGGCCTG ATAAGGTATT TGGGAAAAGT
51 TTATACCTT CATTAGAGTC CTAACAACCA TTCACTCCAT TAAATGTTTC
101 TGTTTGATTG AATGAGACTT TTATAGGACT GTTGAAAAGA GGCATCAGTT
151 TTAAAGTGCT TATCTGCCCT TTGTTTTAGA AGCAGACCAC TAGAGATCTT
201 CTGGTGCATT CCCAAGCTAG GTACCACATG CACTGWTBC TTGATGAAAT
251 GAATTAGAGG ATTGGGGTGG TAGTCTCAGT AACACATGAG AATTGTTACA
301 TTCTTGGTA GGCATTGACT CTDMCAGGTT TGAAATGTCA AATGGACCCT
351 AGTTTCTACA GGGCAAGCTC TAGTCATTGA TGCAAGGGTGC ATGTAGGGAC
401 GAGATAAGGG CTATGGATT CCATTTATG AAGTACGTT GATAGACCCT
451 GTGATGCTTA GTAGACAAAG GAGTAGGCCA AATGAGAGTA GGGGAGGKKC
501 AGAAAATAGD GCCAGAGGTA AATTY

26/472

ug16/38/80

1 CGCGGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT
51 GATAAAGTGT CAAGCATGAC AAANGTTGCA GCCGAATACA GTGATCCGTG
101 CBGCCCTGGA CCTGTTAAC GAGGTCGGVG TAGACGGTCT GACGACACGC
151 AAACTGGVDG AACGGNTNGG BGGTCAGCN GCCGGVGCTT TACNGDHVCT
201 TCAGGAACAA GCAGGGCGCKG CTCGACGCAC TGGCCGAAGC CATGCTGGCG
251 GAGAACATCGA CGCATTGGT GCCGAGAGCC GACGACGACT GGCGCTCATT
301 TCTGANNCGG GAATGCCCGC WGCTTCAGGC AGGNGCTGCT CGCCTASCSC
351 CAGCACACTG GCAGNNNTCG AGCATGCATC TAGAGGGCCC AATTGCCCT
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTACA ACGTCGTGAC
451 TGGGAAA

ug17rcon

1 GAATTCCCGA AAACTCCTCC TGCCCAAAGC TCCCNNTAGC TACTACACTG
51 AATCCACACA GGCTTGGTAG AAACCACAGC GGTCGCCCCA AATCTGCCAC
101 AGTTAACGCT ATATGTAAAA CTTGAAACAG ACTCTYAAAA CCCCTGGTAG
151 ACTTHTAGCT TCTTGAGGGGA TCANTTGGTT ACAGAGTCAG TCAACATAGC
201 AACNTATDCC TCCNRGGCAT CNNGGTACGT CACCAACATA NNGSYTTGNH
251 HAGCCCGAGC CACACAACBS NTCAGBTTAC NNCGCTMGCA GTACHSVCNN
301 NARDAMGTGG STGTTYNWK GGCRGCMCTT NNTYAWCMAR CNKRAGCYRT
351 VKGNNNNNAG SWKYBNTNSR KAWYYRKGSAA GCCCCAGGAC ACAAGGCCAG
401 CAGTTCTAC TTCTGCAGCT CTTGTTCTT AACAGTCTAG CTGACAAGCC
451 ACCGTTCACT CCCAAATCCA CTCACCCATT TCAATAGSCC TAGARGTATA
501 TTAAAG

27/472

ug18rcon

1 GGAATTCGTT GGCACCAGGG CGCCACTAAA TTAAATTGAG TCAGCGCCTA
51 AATGGTTCTK GCCTGGGTAT CAGGCGTAGG TTKGCCAGGA TTYYGCTTCC
101 CTAAATAACGT TTTTCTGACT TAGACTCATT TGTAATTATT GTTCATTCA
151 TTTGTGTTTT TTTTTCTTCC TCTTTCTCT CTCTCDCDH HNHCBTCCTG
201 TCACAATGAT AACAAATTAG CATTCCAGCK CAAAAAAGAGTYCTTNNTTGA
251 GAAGCAAAAK CAAGGACAAA GACAAGTCTY CATTGGTCCA TCCAGCTCTC
301 TCAA

ug19rcon

1 GAATTCCGCT GTCTTCAGAA GAGGGCATT AATCCCTGTT ACAGATGGTT
51 GTGAGCCACC ATGTGGTTCC TGGGAATTGA ACTCAGAACCTCTGGAAAGAG
101 CAGCCAGTGC TCTTAACCGC TGAGCCATCT CTCCAATCCG CAGTTATTCT
151 CTTTTACAAA TATTTYATT TTACATGTGT TTGTATGTGC TTGTATGTGC
201 ATATGTATTT GTAGATATCC ACCGGAGCTG AAATTACATA CAGGTAGCTG
251 TGAGCMCCAT GTGAGTGCTG GGGAAATCAA CTCACTTGCC TTTTCAAAA
301 TMAGTCCACG CTCCTAACTG TTGAGCCATC TCCTCAGGCC CCAACTTCT
351 GATATTTCA AAATAAAAGT CAACGGTACA TCTATGGGCA GGATCGAGCT
401 ATATGMAGGT CMCAAGTACTT CCAGGGYTCA CGADVTAGCT AATGTATRCT
451 CGGTGCTTGC TAAGAACTAT A

ug20r2

1 GAATTCCCTCT GCATAGCAAG TGCTAGGASY AT

28/472

ug21rcon

1 GAATTCCCAA ATTTGGTTA AAAATAAAA ATTATTCTCC GGCTCTACCT
51 CGCCTCCCCA AAAGATACCG AGAGCCACAT GTGTGGGTTT TACCAAGTACC
101 CACGGGAGGA ATCGGGTCCA TGTCCACCCA AGCCAAGGTT AAAAGCCCAC
151 TCATCTACGG ATGAGAAAAT CAATTGAAT CACCTCAGTT AAGCGTTGCC
201 TTAATTAAAC TTAATTAAATA AGGGGGGGAG ARAGATTGGA GGACVATACT
251 AATTGAAARG GGCAAGCCCT THACWGCCCCY CCAACCCAAA ATWAAAAGRGA
301 CCGGYYYAAC MGSCTTCYT CCCTKGWTYY AAA

ug22rcon

1 GAATTCCCCG GCTCDAGCGG CCGCTTTTT TTTTTTTTT TAGTTTGTG
51 TCGTTAATT AAAAAAACTC AACAGGGATA AAAAACAAAG CATTTCACAT
101 AATGCATACA TTCTAACAT CTGCAGATGA GATAAATAAA AGAAGGCTAA
151 AGCAGACATA CTGTGTATTG CTTCTTTG GTAAGTTACC AATATCCTCT
201 GCAGAAATAA AATATGTTAA AAACAAAACC CATGGTMTTA AAATAATTGT
251 CCCTTAGTATAACCHAAAT ATTCAAGCAAT AATTACAGTA GATGTAGTTT
301 TCAAATTGGC AAGAATGCAT AATACTTAT TCTCTGAGGG GTAAGTAGCT
351 GCTTCCAAA ATTAA

ug23rcon

1 GAATTCTACC TGGCCACCTC AGACAAGGAG AGGAADGAAG ATWGGTCCGA
51 GAGCTCATGC AAGTCGTCCCT GGCTAGAAAG CCCAAAATGT GCAGCTTCCT
101 GGAGTGGAGG GACCTCAAAG TTGTCTATAA GAAGATACGC CARTCTCTAT
151 TTCTGCTGCG CCATCGAAGG GCCAAGACAA CGAGCTGATC AACTGGARG
201 CTGATCCACC GATACTGAGA GCTCTGGAC AAGTACTTCG GMARCGTATG
251 TGAGTTGGAA CAWCATCTT MAACTTKAG GAAAGCCTAM CTTAWTCTG
301 GRMSGAGDTT TYTKAWTGGG TNRGGGAATG A

29/472

ug24rcon

1 GGAATTCCCTC GCTGCGGCTG CGGGATGGTT GGCGGTGGCG GGAAGCGCCG
51 GACGGCCGGG GCAGGGACCGC AGTTGTGACA AAGACTTTTC ATGGTGCAGG
101 CTTGGTTGTT CCAGTAGATA AAAATGATGT TGGTTACCGA GAGCTCCCTG
151 AAACAGATGC TGACCTTAAG AGAACATGCA AGGCAGTTGT CGACGCTGCA
201 AGSSACCGAG GAGAGACTGA AAGCATTGCG TCCCATTCAAG GAGATGATGA
251 CTTTGTCAGCTAAT GATGAGTGTG ATTATGGCAT GGGGCTGGAA
301 TTAGGAATGG ACCTCTTTG CYATGGCTCT CATTATTTTC ACAAAAGTTGC
351 TGGTCAGCTT TTACCTCTTG CGTATAATCT ATTGAAGAGGG GATCTGTTG
401 CAAAAAATTAT TGAAGATCAT CTGGCAAGCA GAAGTGAAGA AACATAGAC
451 CAGCTTGCAG GATGAACAAG CTGCCCTGTT AGTGCAGTGB CTTTGAAGTG
501 GGACCAGCAG ACGGGGCTTT GTTTTAAGG AATGGAGAAA TAAATGAATT
551 CCMC

ug25rcon

1 GAATTCCCTG GAGGAGCTCA TCGACTACAC CGGCGGCCTC AAGCACGAGA
51 TCCTGCAGAG CCACGGTCAA GATGCTGAAT TATCAGGGAC ACTTCACTT
101 GTTYCTGACA CAGTGCTGCA AAAGAATAAA GGACACTGTC CAGAAGTTGG
151 CCTCTGACCA CAAAGACATC CATAGCAGTG TTCTCGAGTT GGAAAAGCCA
201 TTGATARGAA TTTTGATTCT GACATTAGGC ARGTKGTGGG GAATWGATGG
251 YYTGCTKGCC AGGCCAGRAC AGCCMAACGG CTTCTCAATK GAGGTCATKG
301 GKTGGRAACA ACKTTCTTTC CGGACCAAGG RAA

30/472

ug26rcon

1 GAATTCGTTC GTGCATAGCC TCCACACTAG GGTTACAGAT TACTGTGTGT
51 GGGTGTGTGT GCGTGTGTGT ATGTATGAGA TATATACTGC TAGCTCCCCA
101 GAACTAGTCT GTGGGGATCA TCTTCCTGGT TAACTGATGC ACGGCCCAAG
151 TTCGGCAACA GCATCTCAAG GCAGGTGGTC CCGGGCTGTA TAAGAACATCA
201 GCCAAGCATG AGACAATTGT TTTCTAGCT GATGCATTGT ATTTACAAAT
251 TAGAACATGT CAAGACAGCA AGTCTTCTCC TTAGATAATT TTCTTGGTAT
301 TTCAAATACC TACAGTGCNC TGACTTCAAC SCTGGGGRRD ARGGARARDR
351 VCACAACCCCT AAATACYTGT GGCGGCTAAS CGAACAGAAR GGGGCATGTG
401 GTGAAGACCA RCCTGGGCTA TATGGTGAGA ATTCCACCA

ug27rcon

1 GAATTCCCGC ATCATGGTT GTCTAACCT TAGGAAGCGA CCTCGTTGGT
51 TTTCTTTAG GTCCAGGTAG TATTCCTAT TGTCCCTCTC TATATAGTCC
101 GTTTGAGGA CACTGTGAGG ATGCTCTTCT GACCCCCTG ACACCGGTGG
151 GGAGGGTGCA GAATGCTTCT GCYGCCTCCT GGAGACTTGC TCTTGCTCT
201 GGCCATGCTC CTGTCTGTGG CCTTCAGGC CCAGATGGGC ATAGTGCTCG
251 ATGAAGTYGC CTAGACAGTC CTTCAGCTCT GCTGCTACCG ACAGGGAGAG
301 GGTCAGTTA CTCTTCTGA TATTGTCCTG CCGGCCTCTC CCTATCCAGA
351 CTTYGGCTAT CTTTAGGAAG CNNBCCCAGGG AGCTCTGCTT CACGTCTAGG
401 TAAAACCYCT TTTYTSGAT GTCCACACGT TTGGAGGCTA GCTCCTGGAT
451 TTCSGATGTG CCCCCAGACT GATTAGGGGT BGCTGAHTCG GAGTAGTKGG
501 GGGTAGTGAG AATDCTGGGB CTGGGGATAG AGGCTAC

31/472

ug28rcon

1 GAATTCCCTG GTTATGTGGG GATAAAAATC CCAGGCAGCC TCTACCCAGA
51 TGCCAGTCAC CTAGTAAAAAA CAACCCTTA TAGTTTTTA AACTTAAAAAA
101 GACAACGCTT GAACTCAGAA ATGTAATTCA TAACCAACA CTAACCTGGT
151 TAATATTAA TAAC TG CAGG AACAA GTGGG GAGGGGGCAC GATGACAGAA
201 TCGATTAGGA ATTTTAACG GTTGAATGCA CATAAGAACG CATCAGCCAA
251 ATGACCAACA AAGCAGTCTT AAAAATTCA CAGGCCTGAG TAATCGAACT
301 TCAGTAACCT AAACCCACCA TGGGGCAGTG TGCA TG GAAA TCCCTCTTKG
351 CBCCTCCCTA AGGAGAGCAG TCTAAAGAAC AGATACCAC TCC TGCKAAT
401 TCCACCACAC TGGCKGGCCG CTCGWGCATG CATCT

ug29rcon

1 GAATTCCAGA CTGACCCGGG CAGCCAAGGT GTTGGAGCAG CTCACAGGCC
51 AGACCCCGGT GTTCTCCAAA GCTAGATACA CTGTCAGGTC CTTTGGCATC
101 CGGAGAAATG AGAAGATTGC TGTTCACTGC ACAGTCCGCG GAGCCAAGGC
151 AGAGGAAATT CTGGAGAAAG GCCTGAAGGT GCGGGAGTAT GAGTTGCGGA
201 AAAATAACTT CTCGGATACT GGAAACTTTG GTTTGGAAT TCAAGAACAC
251 ATTGACCTGG GCATCAAATA CSACCCAASC ATKGGGATCT ACSGCCTKSG
301 AMTTCTATCT CCTBCTC

ug30rcon

1 GAATT CGGCC GAGCGCCGCT TTTTTTTTTT TTTTTTTTTT GAGGCGGGCA
51 GCTAAGGAAG GTTGGTTCT CTGCCGGTCC CTCGAAAGCG TAGGGCTTGG
101 GGGTTGGTCT GGTCCACTGG GATGATGTGA TGCTACAGTG GGGACTCTTC
151 TGAAGCTGTT GGATGAATAT AGATTGAGT GTGTGGTTCT CTTTGAAAT
201 TTTTTTCAG GTGACTTAAT TGTATCTTAA ATAACCTACC TATAGGGAAC
251 MAAGGGAAGG TGGCTTWAT TKACCCCTGR AAGGGADTT TYTTCTGGGT
301 GRATAGGCTT TTTWTTWTTT TTCCAAGTTA AGAGGRTACT

32/472

ug31con

1 CGCGATAGAA GACAGACNNG BTAGAGAGGY GGAGYAAYC AGCAGCAGAA
51 TNCTTGCCGA GCACGAAGCC CCAGCTTCCA TCCCTCCTGT TGCAAGAAAT
101 AAATTAAATT TAAAGTGCCA TTTAAAATAA AGGCATTGAG CCAGGTGGTG
151 GTGGAGCACA CCTTTAATCT CAGCACATAG GAGTCAGAGG CAGGTGGATC
201 TCTAGAGTTT GAGGCCAGCC TGGTCTATAT AAAGTGAGTT CAGGACAGCC
251 AGGGTTGTT ACAMAAGAGA AAAAAAGATG TTGTAATTG GAGTAAAACA
301 AACACAAACC GAAGAACATG TTACAGGAAT AATKTGAGAG AGTCACYGCT
351 TTAGRATGAA TACTGTGGGG TTTTCTCYGT GTGTTCTGG GGTGTTT

ug32rcon

1 GAATTCCCCC TAACTGCTTC CTGCTAGAAC ATCAATTAC TTTATCAAGT
51 TCATACTCGT GCTTGAAAA GAAGAACAGC AACACACCAC AGCATCCATC
101 GGGCCTGACC TTCTCAAAGT AAACACAGAG GGGCCTCTGA AAGGCAAGAA
151 CCATTAACCT TTAAAATTCT TCCTGCCTTG GAGTGGAGGG GGTGGGGAGG
201 CAGTGGATAC GTGTGCAGGC ATAGTAGTGA CAGAACTCAG CTGATGTTCT
251 GGGGTTGGGC CTGGGAGAGA TATCATAACAG GACTCGGCC ATTTCCTACTC
301 TCTGGCCTAA AGATTTGAA ATAGGACCAA GTTGTCCATG AAGAGGGGCT
351 GAGAACCCAG AAACTGGTAT TATAGCATAA TTTAGAACT CCGTGTGCTG
401 TGATGAGATG CTGCCAGGCT GAGCTGCBGC CTCTGAGATG CTCGGCAGTC
451 AGAGTGTGCTAAGAAAACC CCTCAGTATA GGAACAGACT CTAGGTGCCT
501 GACATTGTG GCTCTAGCAT CTATATTCAA TAGTTTHCAC ATGATAGGCC
551 TGTAAAACAT ATGTTCTGA GGACAAGACA TTTCTAAGAG AGCTCTGGAG
601 GTTATTGAA CAGGTTT

33/472

ug33con

1 GNGGCGCAGT GTGGTVGMAT TCTTATACAA ACCGACAAC T GTCACCAAAG
51 CTTATAAAAAC ACGATAGTAC TGTCCCTCTT TTCTGAACCA TCAGAAGACA
101 CAAAACGTGTT AGTGACACAA ACGGTGACAG GTAGCTGGGA CCTAGGCTAT
151 CTTATTATGA AGGTTGTTT GCTTGTGTA TATTGTGTA TGTAGTGTAA
201 CGAATTGTA CCATAGAGGA CTGTCCGTA CTACTGTTA GCTTCTACAC
251 ATTGAAATGT AGATGTTCA TTGGCTGTCT GAAAAGGTGT GGCTTGTCCCT
301 TCCTAGAGAG ATCTACTTAA AAAC TGCTTT GTGACAAAAA CCACACCTGA
351 AGAAATTAA AGAATTGGC CCAGTTAGTC ACTCTGTGTA ATCCCAGGAAT
401 CTAGCTGCTG AAGTCTGCG AAGTAAACTC CCCGTGACCG ATGTCAGTTA
451 AGCTGGTGAT ACCTGGAGAD GTGGTCAGTT GCTAAGGAAG TGGATTCCC
501 AGTAGGGGTT TCTGCACCTC ACCTGTATAG G

ug34con

1 GATTGAAACA TACCACCTCT GCCCCATAVA CTGTTCTCTC CGGGGGAAAA
51 AAATGGAAGT TACCTCACAG TTCACTGCCG TGGTATTCA TCTGTCCCAT
101 GCTTGCGATG ATTGCCATGG TACAGCATTG TTTCAAATGTTG TTCACTGTGA
151 TCTGTGGTC TTTGAGTTTC AGTGAGTTG CTGAAATGTC GAAGAAATAT
201 TTCCAAACTT CAATGTTCAA TGAAATTTTT GTTCAAGTTT GAAATGGAGA
251 GAGCAGCTT AAAAGGTACT AAGCCTTTA CAAATTGGTG AGTACTGGCA
301 CATGAGACCT AGAGCAGGAC CAACTTCTCA CACATAGTCA GTGGGAAAAG
351 AAAGTGCCTT GAAAGTCCCT CCCTCMCCTA CACAGTAGTC GTCATGTCGA
401 GACCTGCCAG AGAGAGACAC ATTCTCAAGT GAATCCTGGC TTCTTGGAAAG
451 CGCCTTSCCT AGACGAGACA CAGTGH CATT AAAACAAC T T

34/472

ug35 con

1 GGATTCTCTA CATAATTGA AAGGAGGCAN NGTCTCACTA TATGGCTAAG
51 GCTATCCTGG AACTTGCAT CCTCCTATCT CAGCCTTCCA AGTGCTAGGA
101 CTACAGGTGT GTGCATCTCC ACTATCAGGC CTCACTTGTA GATGGGAAAC
151 AGGAGTGCCC CATCTGAGAA TATGCATGGC CTCACTAATA AAGCCAGGAC
201 CACACCACAG CAGTCCAGGT TGTCTBCGGC GATGGGCTGA CCTTCTGGGA
251 CATACTACT CTATGTCCAA GCCAAGGACA CTGMCTTCC CCATGTGAAC
301 CTAGTCCTCA GAAATGAGCC AYCCCTTCGA ATGGATTAT GCCACTGGAT
351 GTGAAAAGGG ATGCTTTGT TTTGTTATTG GGAAGCCCT

ug36rcon

1 GAATTCGCTT GCTTCAAAGC CAGCCTTTG GATTCAGAT GAGCCGCGGG
51 TACCCGCAAT CTATGTGCCA GGACGCCAGA CCCGCTTATT GAAATCAGAG
101 CTCTATTTG CCGGCTGGGA CCCACCGCCC AGAGCCACCT AGGTGCTAGT
151 CGAGGGCGCA CGGAGCTGAG CTCTCCGCG GCTCCTGCAC TTCCTTCGGT
201 CCGGCCTGGT CTTGGCACTC GGGCTGCTTG ATTGGTGGT GCAAGAAAGG
251 TATGCCTTGC ATACGCCCTA GCCCTTGCT CCAACGCTCT CAGCCCCCTT
301 GGCTCAGACA GTCCACTCCT AGGTCTGGTT CTCACGGCCT TCCCTGCAGC
351 TGGCTTAGCT GAGAAGGCGG TGAGAGTCGC GTCAGCAGTT TTGGAGGAGA
401 AAGTGCAGGGT TGATTATTGA CCCACGCCCTT CTTCTTCAA ATGCCACATC
451 CGACCCTGAG GGTTGAAGA GAAAAAGCGG CCGAGCBGHW TTNNYCGGCC
501 GGCTCTCACCTCCTAMACGT CCCGGGCTCT TCCCTTCAA GTTGCGCCGC
551 TGCAATCTGC CATAAGGAGC AAGTGTTCGC TGTTTGTGC TCTGTTTACA
601 GCTTT

35/472

ug37rcon

1 GAATTCTAAC GCGTGCAGA GTCAGGGGCT CGTCCGAAAG CCGCCGTGGC
51 GCAATGAAGG TGAAGGGCCC CGCCCGGGGG GCCCGAGGTG GGATCCGAG
101 GCCTCTCCAG TCCGCCGAGG GCGCACCAAC GGCCCGTCTC GCCCGCCGCG
151 CCGGGGAGGT GGAGCACGAG CGTACSCGTT TAGGACCCGA AAGATGGTGA
201 ACTATGCCTG GGCAGGGCGA AGCAGAGGAA ACTCTGGTGG AGGTCCGTAG
251 CGGTCTGAC GTGCAAATCG GTCGTCCGAC CTGGGTATAG GGGCGAAAGA
301 CTAATCGAAC CATCTAGTAG CTGGTTCCCT HCNAAGTTTC CCTCAGGATA
351 GCTGGCGCTC TCGCTCCCGA CGTACGCAGT TTTATCCGGT AAAGCGAATG
401 ATTAGAGGTC TTGGGGGCCG AAACGATCTC AACCTATTCT CAAACTTAA
451 ATGGGTAAGA AGCCC

ug39rcon

1 GAATTCGCAG CAGCAGAAGA TGGGCGTCTA AAAAGGGGCG ATCAGATCAT
51 TGCTGTCAAT GGGCAAAGTC TAGAAGGAGT GACCCATGAA GAAGCTGTTG
101 CCATCCTCAA GAGGACAAAG GGCACCGTCA CCCTCATGGT TCTCTTTGA
151 AGTGAUTGCC AGAGCTGAAG CAGCCCAGCC ACTGGCTCCC CTCCTACTGT
201 AACAGAGAGG ACCTGTTGT ATGCTGTGTT GGTCGGAGAA AACTACAGGG
251 AGGCGAGAAA CAGAGTGTGTT GTTACTCACA GCCAAGCATC ATTTTCCTT
301 TACTCTGCAT TTCATGATCA TATACTCAA AAGAAGAGAT ATTTGCATAG
351 ATAACCTCA GTTTATCTC GACAATATCT ACAATTAA GGTCACGTGG
401 ACAAAATTAT TATATGTTCA TCTTGTTAGT GTGGAAACAA AATGATACAA
451 AGTTAGGCAA TTAGGTTAAA GATGGAAATT TAGAGAAAAA GAAGACAGTT
501 TTGAGTTTA TAGGACTTCT TCAATCCAGC AGTCCAAAAG AAGAAAAGAA
551 AGTGCTTGCA ATACTTTGA ATAGTCTACT GTTTAAAAT TGTGACATAT
601 TGGTCCTACT TACCTCTAAT GCATATTTT CTGCTAAAAT TGTTAGCAG
651 TCCTTGTAAG CTTAAAAGR AATTCCYGT T

36/472

ug40rcon

1 GAATTCCCTT CAGAATTGTC ACCCCACATA AAAAGTTTC CATCCTCAGT
51 AAGAGCAGCG GATGTATTGG CGCCAGCAGA GAGCTGTTA ATGGTATCAG
101 CAGGTGTAAA GAAGACAATT TGATGAAAGG TGTCTCTATC GTCAGTGTCA
151 CCAAGCCCCA GTTGACCTTC ATTATTTCCA CCAGCTGCAT ATACGCCACC
201 AGTATCTGTT GAAACTAAGG TGTGGTTCCCTCCACAGGCA GCAAGTTCA
251 CCTTCTCAGG CTTAAGAGCT TTGATACATG TTGGCTTGAT GATAGCAGCT
301 TTTGATCCTA ATCCTAACTG ACCCCAGTTG TTACTGCCGA ACATGTACAA
351 TTTATTATTT CCTGTAACAA TAGCAGTATG TTCATCTCCA CATGAAAGAC
401 ATATGGGTAT GTCATTTTA AACCAGAATT TGCTAGGAAT ATTTGGCA
451 AATTTAGTTN NNCAAACGTT AAAAACAGCA CCTGTATCGG GCACCAGTGA
501 CTCAGATTCC GCCATGCCGA AGCCTGCGAA CGGAATCT

ug41rcon

1 GCGCTTCTNG CKRNNGTCAT GGCATCNTAG GAGNGTGSCC AATBRCGCSC
51 CTATTAKGTN GASTGCGTHN TTTARCRATT TACASCTKGG GCCGGTTCGT
101 TTTTAGCVA ACCGTAYGGT SGATCTTGGG

ug42con

1 ATTCTCAGGC CTCCTTAGTC ACTGAGACCA GGCTCTTCCC ATCAAACCTCC
51 TTGAGCTGCT GCACGCAGTA CTCGTCAATA GGCTCAGTCA TATACACCAC
101 CTCGAAGCCC CGCTTCCGCA CTCGCTCCAC AAAGGCAGAG TTGGCCACTT
151 GCTCTTGCT CTCACCAGTG ATATAGTAGA TGGACTTCTG GGTCTCCTTC
201 ATGCGAGACA CATACTCTGA CAAGGAGGTC ATCTCATCTC CAGACTGAGA
251 GGTGTGATAG CGAAGGGAGCT CAGAGAGGCG GCBGCGGTTA GTGGAATCTT
301 CATGAATTCC AAGCTTTAAA TTCTTGGAGA AGGCCTCATA GAACTTCTTG
351 TAGTTCTCCT TGTCCCTCAGC CAGCTCGGAG WAKATGCTYC AHGGCACTTC
401 TTGACGATGT TCTTGCAGGAT GA

37/472

ug43rcon

1 CGCAGTGTGT SNTCGCATT AGTTTTTT TYBBGCACCT TATTCTGTG
51 GTGTCTTCAC TAGAGATAAT CAGGGTGCCA CTACTGCTTC TTACTTTGAT
101 ACCTTAGCA AAAATCCAA TGAGGTAATT TATGGTTAG TAAATGAAC
151 CAATAGCTTT TTKGTTCAA GAGTCCAACA ATCCTAATT CTTGAACCTT
201 TTCTTAGAGG TTATATTTC CAATCTGGT TTTGTTCTT TAAWTTGT
251 TCYTTAWCTT TCTCTCATT TYACGKKATT TCTGAAACAA CACCCCAC
301 GGAAWTTGAG CCCMCAGTTC AATTKGACCT CACCTCCTAA GAAGTGGGSC
351 TTCTTTCAAG TGGACCACCA CTWAAAGGRA AAC

ug44rcon

1 GAATTCCGT GGGCAATGAC ACACACACAC ACAGAGTGAG GGAGAGAGAG
51 ACAGATACAC ACATACATT GAATGAAATT TTAATTAAAC TCATGTAATG
101 CCCTTGAGAC ATGGAAAACG CAGTTGTGAG GTTAAACCAT ACAAGCTAA
151 GACTTGACA GCATCAAATT GATCACCACG TTTACTGTCA GAAGCACAGA
201 ATTCAATGGTT TCCCACCTTC TTTCCTACGT TAGATAAGCT TGCTAGTGT
251 GAGTTGTCA TAGGCGATGT CTTGTTAGA TAGGCTGTTA ACGATTAC
301 GTTGTCTA ATAAATATG AGTTTTAAG TTATTGATGC CCCCATGTGG
351 TGAAAAGCGT ATCTTCCTC TGTTAGAACT TGGAAATGAC TATATTTC
401 TTTAATAAA AGTGGATAAT AATGTTTTT GGAAATGCTG TTGATCAGGG
451 ACATAATTG AATTTGTAA AGCTCATTGC CATAAAATTC ACAGCCTCAC
501 CCTGTGTTGT CTCAGAAGTG CATGTAACCA AGCACGCCA TTGAGACAAA
551 GTATAAGAGA GACTGAGTTA TAGAATAGCM TAGGGCTTH TCYGATCCAT
601 GTTGTDTGA

38/472

ug45

1 TCAGACCAAC ATCAATCGAT TCATTAAATA TCTTACACTA TTCCCTGATTA
51 CCATGCTTAT YCTCACCTCA GCCAACACAACA TATTCAACT TTTCATTGGC
101 TGAGAAGGGG TGGGAATTAT ATCTTTCTA CTAATTGGAT GATGGTACGG
151 ACGAACAGAC GCAAATACTG CAGCCCTACA AGCAATCCTC TATAACCGCA
201 TCGGAGACAT CGGATTCTATT TAGCTATAAG TTTGATTTTC CCTAAACATA
251 AACTYATGGA GAACTTCAAC AGATTATATT CTCCAACAAAC AACGACAATC
301 TAATTCCACT TATAGGGCCT ATTAA

ug46

1 TTGATGGAT TCCATCGAGG CTTGCCCTTG TTGCCTTGCT CACCTGTTGA
51 TTGCTATAGA GTCCCTGGGG TCCAGGAACC TGCAAGAGAT GGGGGTGAAG
101 GCCTCCTATG CATAGGTTCC ATATCAGTGT GTTGCTTGCC TGGTGGCAGC
151 CCACATTGT ACCCACTTCC TCTGCTGCTC TAGGAGCCTG GAACATGCTC
201 TTCCCCAGCC TGCCCTGGC TTCCCTGTG GTCCTACTCC GTGCCACAGC
251 ACTTGGGAAG TCTTGTGTAC TAAGTCTCCT GATAGCCAGT GCGCTGCTT
301 AGARGTGTGG CCGCCTCCC ACCGGCGTGG CCGGGGACCA TCCATTTCTT
351 CTTCCCTTCTT

39/472

ug47rcon

1 GAATTCTGTT CCTGACATCA AGAAAACACT GCAAGTCCC AGGACAACGG
51 GGACAGAGCT GAAGCTGGGG ACAGAACAG GGTGCTCCCT AGGCTACTTC
101 TGTCTGGTTT TCCAGCCACC CAGACCCCTGA CTTGGGGCGT GAGTCCTTAA
151 AATAGCTACA GTACAAGTAG GTATATGAAA GTGGAGTGTC CTTCAGAGTT
201 CAAGCTACTA CAAAATGATA CCTGTCCCC CCAGGGAAATC CCAATTCAA
251 AGTCAGAATT AAAGTGGCCA ATTATCTCTG AGACAGGGAG AGAGAGACAG
301 CCTTGGAACG TTGCATCCAT GAGGACAGTA ATTTGTAAAT GCTAAATGGT
351 ATCCCCCTTC ATACAATGTG GCAAGGSATA TATGTCTTAA AACCAGCTTG
401 AGCCAGGTAT GGTGATACAC YYCTGCAATC CAAACAMYTT GGGAGGCGTA
451 GAGAGA

ug48

1 GGAATTCTGAT CGGCCTATCC CACTAAACTG CTGGCTGGAG CTCTGAGAGC
51 TCCTCCCTGC TGAGGCGGTG CTGCTGCCCG CGTAAGTGCC AGCAGCATAAC
101 TCCTGCGCCG TGTAGCCACT GGTTGCCATA GGCAGCTGCC CCATAGGTGC
151 CTTGAGCATA GGTGTATTGG CCTGCTTGTG CCCCCAAAGGC AGAATTGGG
201 CTTCCATAGC CACTGCCATT AGCATAACTG GCTCTATCGG GTTCCACTA
251 CSGATCCCTG TAAGCTTGTAA GAAT

40/472

ug49rcon

1 GAATTCTGAA AAGGAGGCCT CGAATCTGAG TGACAATGGG CCCTTCTACT
51 CCAGGGACAA TGATTGTATC CCCTTCCTTC AAACGTCCAT TGATCAATAT
101 GACATCTATT GTGGTGCCC TTCCCTGGGAG AGCTTAACC TCCATGACTT
151 GTGCTCTCAG CTCTCACAG TGTGCAAGCC TCTTGCTCAA CATGGTTGA
201 GTTAACTCCA CAAGAAGGTA GATGAGACTT CCCATGCCAT CACCAGTATG
251 TGCAGAGGTA GGTACCAAGG ACACGAAAGT GCAGGGGGATC TTTATTCTCA
301 TAAAACAAAG CAGCATTCAA ACCCTGCTGT GCAAATTCTA CAATAATGGC
351 CTTTGACCGC TCCTCAAATT CATCCTTGT ATCCTTCTTC TGCTTTTTA
401 AAGTAACAGC CWCATCTAGR ATCAGGASTB TTYTTCCAA TCATATAACC
451 TGTTCAATCT TTATTAAGTG CAACAATGAA GGGGCACCTT TTAGATTGA
501 GAATKTTGAT TGATTCAATT G

ug50rcon

1 CTCAGCTATG CADVWNNTG GTACGAGCTC GGATCCACTA GTAACGGCCG
51 CCAGTGTGGT GGAATTCTTT TTTTTTTTTT TTTTTTGAGA CAGGGTTTCT
101 CTGTATAGTC CTGGCTGTCC TGGAACTCAC TCTGGGATCA GGGTGGCCTT
151 GAACTCAGAA ATCTGCCTAC CCCTGCCTCC CAAGTGCTGG GATTAAAGGC
201 GTGCACCACC ACTACCGCCC GGCCACTGAT ATGCCCTAAG TGACAGACAT
251 TATGCTTGTCA ATTAGCTTT CACAAACAGT ACTGTCTCTA CAAGGCATT
301 AGATACAAGG AGCCTCAAGT ATCTCCTACC TGATAAGTCA TGTCAAGAGG
351 CTGCACCTCA TATGGGGTCA TTTATAATGT ACATGATTT ATTTGTATAT
401 TACTACTGAT CATGTACCAAG GGAAACTATT CTCAGAACCC AGTTTTGTT
451 GGAAWACAAA AAGTGCAATA TATGACTCAA GTGCAAAARA AATCCTCCAA
501 TTTTATTCT GTAAGGACAG GCTGGGCCTG ATGCACACAG GTCCCTCCCC
551 GGACTAGTAA GGCAARATGC AGCTA

41/472

ug51rcon

1 GGAATTCTTT TTTTTTTTTT TTTTTTTTTT TTTTTAGAAC AACTCAGCAA
51 AATAAAATTC CGGTTTATTG TTGGACATTG TTTCACACAT ACATCAAACA
101 GGCCAAAAAAA AAATAAACAG CAACTTCATA GACAGAAAGA AAAGGAAAAAA
151 AAAAATCTTTTATCTTGG CCTTTTAAC CATCTCATAC AAACCAACTA
201 CTTATAGTAC AGCTAGGTAC ATACACAAAAA GTTACTGGAA TGCTCGGAAT
251 AAGATTGTTT TTTTGTGTT GTTTTGCTT TTTTTTACAA GGTTTTTTT
301 TTCTCCTTG AGATTATAAT GAACATGGTC ACACCACAAG TAAAGTCTGA
351 AGTAGGACAG AAAACKCTCT GAAGGCTGGT TTGGTCACCC GTTATCATT
401 AAAATGGCTG GACCCTAAC AATATGTTAC AAAAATTAA AATGTTAAT

ug52rcon

1 GGAATTCTTT TATCATAAAA GTGTTGACGT TTATTTATTA TAGCACCATT
51 GAGACATTTT GAAGTTGGAA TTGGTAAAAA AATAAAACAA AAGCATTGA
101 CCTGTATTGG GTGGTTGAAA CAGCAAAAAA TTGTATTCTT TTTTGTCAA
151 ATTATGCTTT TTCCAAAAGT TTGGAAATAA ATAACCTGGAA TTTAGTTGGT
201 CACTTGCACT GGTTGATAAG ATAAAACAA GATGAACACA TGGATGTGGT
251 TTTTGTGTTG CTGGGGTTTC AGAGAGTTD GCTTATAAAA AGCAAACAGG
301 KCCAATGTCC ACACCAAATT CTTGATCAGG ACCCCCAATG TCATAGGGTG
351 CGATATCTAT GATGGGTAGT CTCATTDCCT TGCCTGTTG ATATTCAAAG
401 ACTGTCTTDC DCCATTCCCC AGTGTGTTA GTACAGCCAT TCCTCTAGAA
451 CTGTGTAAGT GAATTDCTG TTCCCTCCA GCCTTGA

42/472

ug53rcon

1 GGAATTCCAG ATCAGCTCCA ACCCGGNGCT GGCAGCCATC TTTGAAAGTA
51 TCCAGAAAGA TTCTTCGTCC ACCAACTTGG AATCAATGGA CACGAGTTAG
101 ATGTGTGCNC CCCGTGAGGA CCATTCCATG TGACCGCACA ATGCACTGAA
151 CGACAGGTTG ACCACAGCCA CGGGAGAGAA GTGTCCAGAG CTTCACGATG
201 TTCCACTTTA CTTTCCTTCC CGGGAAGTTT GTTGGCTTT CTTCCATTGT
251 TGTTTTGTA GCTTTTWCTT CAGAAGTCTG TATTTCCATA AGCCAGAGGT
301 TGTAAAGCCA CTGATGTTT TAGTGGTTAG GGCAACATT GAAATGGGAA
351 CTTAADDNCT TGGATTATG AAATGTGGAA ATAGGGTCCA GTATCTGTT

ug54

1 GAATTCCCGG GATTCATGA TTTAAAAGGA AACATGGTGG TATTAACCCA
51 CTTGGCAGGT GTCAAATCCT CATGACCAGC TTAAGACAGA TCCTAGACGG
101 AAAGGGAGGT GCAGCCAAG TCAGGGCTTT GGGGTGCACA GGGAGCCAGT
151 AAGGAGGAGA CCGTCTGGGT TTCTTCCAG ATGTTAACAT CTTCTGGCT
201 CTTACTCACT CCCACCCTTC CTCGTAACACA AATCAAGGCG AGCCCTCTAA
251 GGCTGGAGAT AGCCCAGTCC AGCTCAGATT TAATACTCTA GCCCTTCCCC
301 TTGTGTTATT TTHMCMAGC TGCCTCTGC CTCCAACATA TGA

ug55rcon

1 GAATTCGAAC AGGCCAATSA GGAGCTTCGA GAACTTAYCC AGAATGTSAA
51 AGACTTSCCT CAGCCGTGAG CCTCCCATGT GGCCCAGGCC ATGTGCTTGC
101 TTCCCTTGTG TCTGTGTGA CTTGAGTCTC GGTGTCTGCA ATGGACATGT
151 GTTTATRACC CTATGTCTGG CCCTGAGTCS CTGTCCAGTC AATGTSCCTA
201 AGT

43/472

ug56

1 GAATTCCCTC CTCCCGCAGT TGACAAGCCA AGCCGCCAGC TAGCTTCATC
51 ACCAACTCGC TCTCGCTCCA CCATCCTGGA ACCCTTCCC AGCTTCACCA
101 CCACATCCGT ATGGCTCCTT CTTCTTAGCT TCCTCCACCG AACCGCACTC
151 TTTCTGGGC TATCTTCACC ATGCACTGCT GCTGCHGGCT CCTCAGTCCT
201 TCCTAGCTTC ACCAAACTGG CTTCGGGACT CCTGTCTGCC GCTCCTGTCT
251 TCCTAGTTCA CTGAATGCAC TTCTGTGTAG ACCTGGGTCA GCTGCCAATG
301 CTAGTCGTTA GGATTTAAA AGCACCTCAG CTCAAGTCCA ATGCAAAATG
351 CTGACAATCT TGAAACTGTT ATCAAAAGTC CTTTGTCAT CAAGCAAAAT
401 TAAGCTACAA GTTAAGGCTT TTAATATTCT CTAACTCTTA A

ug57rcon

1 GAATTCTGGA AGTGTGAGCG TCTCTGGAGC AGATTTTTC CGGGGCCGGT
51 CTTTGGGAAT GGACAGAAAT TCTGGCGCAT CTGTGGAGAG AGGGGTGGAT
101 GGGCGCTGG AGGGGGCGCT GCGCACCGAG GAAGGCAGTA GGGCGATGCT
151 GGAGATAGAA ATGGCCGGTG GGAAAWHGCC AATCTTCTTG TTGGTGGCTT
201 CCTGAGTGGC TCTTCGAAC TCTCGCACTT CATCCATTGT CATGTCTTC
251 AAGGGAAAAG CGGAGAAAAG AATAGTTACT GTTCGGACBG GCAAATGGGT
301 TWHNHHNNCT AAATCTGGGG ACACTACCAT GAAGCTGATG CCTACCCAAT
351 CACAAACTTG ACATGTCTT GAAATATTAG ACCCTCATT

44/472

ug58rcon

1 GGAATTCCCTC GGTCATCACT GGGAAAGAGAG GCCCCTTGT CTTAAAATTT
51 TTATATGCC CAGTACAGGG GAAGGACAGG GCCAAGAAGT GGGAGCAGCA
101 TGGGGGGGGG TGATTTCGG GATAGCATT GAAATGTAAA TGAAAAAAATA
151 TCTAATAAAAT TTTTAAAAAA GCCAGATGTT AAAATGTGAC AATAAATAAA
201 TAAACAAACA AACAAATAAA TGTTTACAA CCTAAAAATT TTAAAGAAAAA
251 AATGAAAAGT GGAGATGAGG GCCCCAATTT ACCTAATTT ACTGCTGCAT
301 CCTATTGGAA ATAAGTAAC AAAAACTGTG AAATTGTTGC ATGTTTCTT
351 GGTATTGTT TTAATGAATA GTTCTAAC DCAGAAATCC TTGTGGAGGC
401 AGCGCAGAGT AATGCATTGA TCATCA

ug59

1 TCTGAGACAA GGTCTTAGTG TACACGGCCT GCATGACCTG GCCTCCTGCT
51 TAAAGAAATC CTCTTACCTC TGCCCTCCAA ACGCTGGAT TACAGGAACA
101 TGCCACCAGA TACAGCCAAA ATCATTACCT TTTCTTCTT CTTTCAGTA
151 CCAGGGTCCT ACACATGCTA GGCAAACCTCT CCAATACTAG CTACACCCAC
201 AGCTCAGCGA CACAAGCTG TCTCTTGTGC TTGAGTCTAC AGTGAAGATT
251 GACTCAACTG AAATGTTAC CTTGTTGATG CTGTAACACT GTCTGAGTCC
301 AGAAGGTTTT CAGTCATCCT TAACTGCAGC ACCTCTGGCA TNYNGTCTGA
351 CTTTCTACA CCTTCTTCTG GAAGTTCTTC TATAT

ug60

1 GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCAGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTG
201 CGTGTGTCGA GACCGTCTAC SCGACCTCGT TCAACAGGTC CAGGGCCGCA
251 CGGATCACTG TATTGGCTG CAACTTTGT CAATGCCTTG ACACTTTA

45/472

ug61rcon

1 GAATTCTTT TTTTGTTAT TATCTGAAAT GATGTTTGA AACTCTTT
51 GTCTCTGCCT CACCCCCAAC CTACTCCCCT CTCCAAATCA CAAACTAGGG
101 AATCTGGAAA CCAAGGAAAA TACCAAATCC AGATTCTTT TGAAGACCTA
151 GAACCTTTA AGATGACTCC TTTCAGTGCT ATTGGTTGG AGCTCTGGTC
201 CATGACATCC GACATCTTT TTTGACAAC TTATCATTAK TGGTGACCGA
251 AGAGTAGTTG ATGATTGGGC CAATGATGGG TGGGGGCCTG AAGAAAGCTG
301 CTGATGGGGCTGCTGAGGTT AKTGATTGTT CATTAAATTGT GGATTWTAT
351 CCACTTTTG GGGGGAGACT GATTACTTT TAAAAAGCAG

ug62rcon

1 GGAATTCGTC AGTGAGTGTT GACTCATCCA AATACCAAGT GCTCTGGTCT
51 GAAGCTGAGG GCCCTGCTGT AGGGTCCGGA GCCCCACACA CTGTGTTGAT
101 GGCTGTGGAC TGGGAGGAAA GGAGCTCGTC TAGAAGACGC TGGGCTGTGG
151 GGAGAACATCG CTGAGGAAGC TCACTGATAA GGTACTGAGC AAATTTTGA
201 AGCTGGTCCC TTTGTAGCCG AGACAGGGAC TCTGAGACTG GAGCCCGCAG
251 GCAGACTGCA GATGCGTTGT GAATGCGGAA GAGGCAGAGT GCCACGACAT
301 GGGTGCACCA TTTGGCCCCG GCCCCACAGG TACAGCTACA AGAAGTGACC
351 CGGCAGCNGT CAAACATCAC AGCTACATTG TAGGCCCCC

ug63rcon

1 GGAATCCAG ATATCTGCC AGCATCCTTA GTGGCCTGTC GCTGTGAATC
51 ATTGAAATAA GCAGGGACTG TGATCACAGC ATTTTTGCT GTGTGGCCCA
101 AGTAATTTC TGCAGTCTCTTTCATCTTCA TCAACACAAA TGCTCCAATC
151 TGACTTGGAG AATAGAGTTT TCCATGAGCC TCAACCCAAG CATCACCATT
201 GGAGCGCACG GCACAATTAA AAAAGGACAC ATCTCTTAGT GTCTCTCTG
251 TCACTCTCAG GGGTCACTCA TACTCGCTCG CTCCAATAAG CACGCTTAGT
301 ACGCATAGAA GGTATTGTTT GGATTGGTSA CAGCTTCCCG TTTT

46/472

ug64rcon

1 GGAATTCTAT TTGTAACCCC CTAATTTGTA ACCCTGTAAC CCAGGGAGGT
51 TAGACAACAC TCATTCCCTG GTGTCTTTG TCTCACTGAT CAGTCAGAAC
101 CCAGCCTGAA AGCAGTTGTA GGACTGTTT CTAAGCCCTG GGCAGCAGAG
151 GCAGGATTAG GAGTTCAAAG CAAGTCTAA CTACATGGCA TAAAGAAAGT
201 AGGAGCTACA GGAGATGTTT CTCTAAACAG ACAGATATGA AATCTTTA
251 AAAACAGGGA ATGAAATTCT TAATTTGGG GAGCAATATT GGAGAACTGW
301 TNCACTTAAG AGATCACCCA TGTGATAGTG AAAATGAAA TTTAAAATCT
351 CAAT

ug65rcon

1 GGAATCGGC TGAGGCTGCA ATGTGAGGTT AGATGTGGAG TCACGCTGTT
51 CAGGTTTCTC ATTAAGAGGA TTGGCAGTGA AATTGCCTTC CAAAGAACTC
101 TGCAGTGGGA TGTGGCACAA TTCTGAGAGT TGACTCTGAT GCATTCTTC
151 AGGTTTTAA CAGTATTGTA TTATAAACAT ATGGATATTG AATTGAGACA
201 ATTTTTATTT TTCTCCCTGG GTAGGAAGAA CCACTAAGTA AAGGGCAAGC
251 TGGGCTTGCC TGCTCTCTCT GTCCAGTTCT ACATTAGTCC AGTCTGCACA
301 GTGTCCCATG CTGCCGTAA WCACAAATTG TGGTTCTTGG GTTAAGAGTC
351 ATGTGTTTC CAGACCTTGA ACTCTCTACT GAGCAGA

ug66rcon

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTTTTTTTTT
51 ACCATGCAAC AAAACCTTTA TTAACATT TTAAACAGAGG TTCAGCTATT
101 ATTGAAACTT GTAATTCTA AACTAAATT GGGGCAAGTG GCTAGAGTGC
151 AGAGTAATGC CATCACTGCC CACTGGGAAT GCAGACCGAA TAATTAATAG
201 CCANNNCNNC AGACGGAGAG ACCAGGTGCA AGGTCGACTC CTTTCNRGAW
251 GGTTGTAATC AGAGAGAGT

47/472

ug67rcon

1 GGAATTCCCA GAGGGGGGAT CTCATCAGGA AGGCGATGAG GATGCCTCGC
51 GCATGGAAGA GGTGGATTAA AGCCTCCTGG AAGAAGCCCT GCCCTCTGTA
101 TAGTATCCCC GTGGCTCCCC CAGCAGCCCT GACCCACCTG GCTCTTGCT
151 CATGTCTACA AGAATCTTCT ATCCTGTCT GTGCCTTAAG GCAGGAAGAT
201 CCCCTCCCAC AGAATAGCAG GGTTGGGTGT TATGTATTGT GGTTTTTG
251 TTTGTTTAW TTTGTTCTAA ATTAAAAGT ATGCAAAATA AAGAAGATGC
301 AGTTTATAG ATTCCACCA CACTGGCGGC CGCTCGAGCA TGCACTAGA
351 GGGCCAATH CGCCCTATAG TGAGTCGTAT TACAATTAC TGGCCGTCGT
401 TTTACAACGT CGTGAUTGGG AAAACCTKGC GTTACCCAAC TAAWCGCCT
451 TGCAGCACAT CCCC

ug68rcon

1 GAATTCCCGA ATGGCATGAT ACTGAAGCCC CACTTCCACA AGGATTGGCA
51 GCAGCGAGTG GACACTTGGT TCAACCAGCC GGCGCGCAAG ATCCGCAGGC
101 GCAAGGCCCG GCTGGCGAAA GCKCGTCGCA TCGCCCCCTCG CCCCCGCGTCC
151 GGCCCCATCA GGCCCATCGT GAGGTGCCCT ACAGTGAGAT ACCACACCAA
201 GGTCCGGKCT GGCAGGGCT TCAGCCTGGA GGAGCTCAGG GTGGCTGGCA
251 TCCACAAGAA AGTGGCTCGC ACCATCGGCA TCTCTGTGGA CCCGAGGWGDG
301 CGAAACAAGT CCACGGAGTC ACTGCAGG

48/472

ug69rcon

1 GGAATTCCGG ATCTCTCTG TGTTCCACT ACTCAAGCAC CGAGTGGCGT
51 TCTATGGCGT CCGCCTCGGC TCAGCCCGCG GCCCTGAGCG CGGAGCAGGC
101 CAAGGTGGTC CTGGCGGAGG TGATTCAAGC GTTCTCGGCC CCAGAGAATG
151 CCGTGCGCAT GGACGAGGCT AGAGACAATG CGTGCAACGA TATGGGCAAG
201 ATGCTGCAAT TTGTGCTGCC CGTAGCCACA CAGATCCAAC AAGAGGTTAT
251 TAAAGCCTAT GGCTTCAGCT GCGACGGGGA AGGTGTCCTT AAGTTGCC
301 GCCTGGTCAA GTCTTATGAA GCCCAGGATC CCGAGATTGC CAGCCTGTCA
351 GGCAAGCTGA AGGCCCTGTT CCTGCCACCC ATGACACTGC CGCCCCATGG
401 GGCTKCTTCT TGGAAGCACG TBNGCAGCC TYCTGAGATT BGTTCTCGTA
451 TGTGKCCCTG CCTGCTGTT GARGCCGGCC CTTGTGTTCC AGAGGRTAAT
501 AAATGTACHT GTGACTCAAA AAAAAAA

ug70rcon

1 GAATTCTAAC TATCTAAAAA TATGAATGGA TAACCAAAGT ATTCAAACG
51 TGGCTATTCT GATCCACCGT TTGTTTTCT CTTAAAAAAA AAAAAAGTAT
101 GTACAGAAAT TGTATAAAAG ACTTTGTGAA TTCAATGAGA GTTAGCTTCC
151 AGTCTTCACA TCCCAAATGC TGGGTTACA GTTTGGCTC CTTGCATAT
201 TTGCCTGTAG AATTAAGACT CATAATTTT GCCTTGCTAA CAGAACACAC
251 TTTAAATTAT GAAAAGCCCT CAACATATAC CAAAGTAAAA GACAGCATT
301 TGAAATTAGC CAAGGCCAAC ATGATTCTGC TCTCTGGAAC CAGTGTACTC
351 TAGTGAATTG GGTGCTGTG GTGAGTGAGA AACGACAATG GGAAATGTCT
401 ACTGTTGAC TTTGAAATC AGATTTATTC AGTGGTGGCT GGACTTGGGG
451 ATGGGTTCAA TCCACCATTG YCTGGCACAT GTTAATTACT AGGTAAAGGT
501 CAAATACAAT KTHAGACCTA AAGCCACAGG AGGAGGATGC AAAACGTTCA
551 ATTCCAAAGA GAACAGTTW GWGTTCAACA ACATGGGACT TTWCCTAG

49/472

ug71rcon

1 GAATTGGAA TGGTGGCGCT GTGCCTGTGA GCTTCCGAAG TTAATGGATT
51 GTTCTGGCTG TGACGAACAG GATGACGGTG TCAGGCGACT CCAGCCAAAA
101 GCTTTGCAAA GTGGCTCGAG TCACAGTACT CTGATGCTGA GGCAGGAGGG
151 CTCCCAGTTT GAGTCAGCTA GGGCTCAAAC CAACCCAAAA AAGCCTGCCA
201 AGTGAAAAAAA GACACTTCC AGAGCTGTTG CAAGGTGCAG CTGGCAGCAC
251 AGCACAGCTC AGCCCATCCC AGCCCAGAAG GAGCAGCGCC ACCCACAGGC
301 GCAGGGAGGA AGTAGGAAGG CTGCAGGGGG CAGGCAGCTT TCCCTGGGAC
351 AAAGAAAAGG AACATTGGT CTCTCAGTGT CTGCTCTTCT AGATCCAAAT
401 ACACAGTACN CCTTGCTGG TGTTTGTTT TGAATTAAAG AATATTAAAG
451 TTTGGGGGAA TTCACCACAC TGRC

ug72rcon

1 GAATTGTCA ATAAGGTATA GGCTACACCC TTCTCACCAAG CTCTCCTGT
51 CCGGCCAACATC CTGTGAGTGT GCGTATCAAT GTCCCGTGT ACATCATAGT
101 TAATGACTGT CTTAATGGAA GGAATATCCA GACCACGGGC TGCAACATCA
151 GTGGCCACCA GGACGGGGAT GTCCTTTTC TTAAAATCTG AAATAACCTT
201 GTTTCTTCG CTCTGATCCA TGTCCCCATG GAGCAGACCA AGATTATGAC
251 CCTCCTGCTT CAGGTTACTG GCTAGCTTT CAGCATTGGC TTTCTTAGTA
301 ACAAAACAAGA GCACACTCCC CGAGGAAGTA AACTCCACCA GACGCCGAGT
351 CAGCCAGTTC CATTACTKG GTCCGGAATG GAGAATYTCC ACAATCTGTG
401 TCACATYTT

50/472

ug73rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GAATTCCCCG GCTCGAGCNG
101 CCGATTTTTT TTTTTHTTTT TTTTTCAA CTTAAAGGCT TTATTTGACA
151 CAAAATACAA TATGGCTGCG GGAACACCAA ACTCCAAAAA CAAAGGAACB
201 AAAAAAGGAC CATGGTTCTA TCTAATGTAT ATTAAACAGG AAGTCACTAG
251 ACGAGTAACA GATGGGTACN CCTTGCAGGA AAGTCTTCC TAATKCCAT
301 ACTTCTGGAA CTCCCACCTCT CTGTTGTCCA A

ug74rcon

1 GGAATTCGTT TTGGAATAAC TGGTCAACAA AAATCAAAAG ATGTCTGGGG
51 GGTGGGGGGGA GACTGCCTGG CAGTACAGGG TGGGGGAGAA ACTCCATACA
101 ACAAGACAGT GCAAATCAGC AGGAAACTGC ATGTGTGCAC TCCAGACAGC
151 CAATCCAGGA GCATGCTGTG CATTCTGGAA CCCTCCAGAT GAGTGCAGAW
201 WDTTGGCAAT GCCCATGCA TTCACCTTA ATGCAACTGC ACCAGCCCTA
251 CTGTGAGTGA TGTGATCTCC CTTAAAAAC CACCCACCAT CATCACTGAT
301 TCAATTATNN YYGCAAGTTG TATCTTCAAG GACGGAAGCY CTGAAGTGAC
351 CATTCACNAD CTTATAATT ATA

ug75rcon

1 GGAATTGTC TACAGCAACC AAAGAGATAA CAACAGTAGG GTCTGAAATT
51 TCAAGGGCTC TGGGGTTCCA GGCCAGTATC ATTACAGAA GGGGATGGGG
101 AGGAGGGCTC CAGAGGCTGC CAGGCTAAGG CTATACAGAA GGBCCCTCCAT
151 GAAAAGAAGC TTTATGAAGT TTCTCCAGAA ACTCAAATYT GGAGATATTT
201 TTAAAATNNC TCAGGCTGTC CCAGCAGAGA ATNCCTGTGA TTATKCCTGA
251 GAACAAAAGG RGACAGGCCT CCTCCTGTGT GGGAGCTGTA CATKCYCTCA
301 CAGGTTGTCTT

51/472

ug76rcon

1 GGAATTCCAG CCCTACATCA AGAGAGCCGC AGCCACCAAG CTTGCTTCAG
51 CTGAAAAACT CATGTATTTN NNMMCTGACC AGCTGGGACT GGAGCAAGAC
101 TTTGAGCAGA AACAGATGCC ANAHNGGAAG CHGCTGGTTG ACRGTTNMT
151 TCTGGCATT GATGTTAGCA GGGGCATNNA HCHGGAACHT CGATGATCAG
201 CTCAAATTG TCTCCAATCT CTACAATNAN CTTGCAAAAN CNAAAANNCA
251 TAGTGGTAGT NCTGACTAAG TGTGATGAG

ug77rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GGAATTGGG TAAGCACACT
101 AGCAAAAAAA ANAAAAAAA AAAAAAAAAY NCAAAACAAAA GAGTCTTAGA
151 GGAAGAACATGA AGAAAACATA CAATACTTTC AATTGAAGA CAGATGCACA
201 ATACTTTAAC ATATGCCAAA GATTAAGGG AAAAGATTAC AAAATTATAT
251 CACTGCAAAT TTTGTTGCTG TGACAAATTA AAAGCAGTTC ATACCAGAAA
301 CACACACAGG TGCAGACCGG TGAGCACACA GGCACCATGC ATTGACAGTG
351 ATGTTGATTCTTAAAGTAA TGAGCCNTGG

52/472

ug78rcon

1 GGAATTCGTC ACTGAGTCCT CTCTTCATCT ACATTGTCTA CCAGCCACTA
51 TGAAAGCCTG AGCCCCTACT TGTCAACTAT CCAGGGAGGAT TATCCCACCT
101 TGTTACCTCA CCTCTAAAAG CAGATAACAG CCTGCTGCTT GTTTTGTA
151 ATAAAGTACT ATTCAAACAG CCACACATAC TCAATTAGC TATTGTCGGT
201 GATTGCTCAC AGACAAGACA AGTTGTTGAG ACAGACAAGT GTGGTCACAA
251 AGCCTAAAAG TATTTACTAT TTGGCACTAT AGAAAAAAATG AGACCGCTGG
301 CTTTATTAG AGAATGAGAA GCCGTTCGCT AACAGGGATG ATGATGATGA
351 GTGTGAGGAA GGAATAACTT CCAACMGTG TGACAGCTTA TTTTATAGAA
401 AACCGTCCC ACAAATTAT WGTCACTGTC CATTCACTAA CVGCTGGTCA
451 TGTTCATGTT CCCAGTAGCA GGTCATCTGT CAATAAACTC CTGATACCCA
501 GAGCTGTTYC CAGTYCCACT CHAACTTAG CACTACTGTT TACCTAGGCC
551 CTCACCCT

ug79rcon

1 GGAATTCAA TTCAGAAAAA AAATTCAAGAC TGAAATGACT AATCCCATAT
51 CTCATAACCC CTTCAACCAG TAACACCCCC CCCCAAAACC CATTGTCTTC
101 AGTGTGTCAG CTCACTAACATC TAATGATCAG ATCAATCTAT GAACTCCACA
151 ACAAAATAGC TACTGAGCAG CCCTTCCTGA GAAGTAAATA TTCTAGATTT
201 TGGGAACCAAG TGCCGAAGAC AGAATGCTTA CTGTCTAGAA GTTTCACCTT
251 CCTTATGAGG GGGTTGAGAA CCAAGATGAC TATTAATGTG TGATGTGATC
301 CMATAAAAGC TGKGGGAAA TCAGGTTTG AGGAGGGGAA TAGTTGTGCA
351 AAAAAAAAAA ATAT

53/472

ug81rcon

1 GGAATTCGCA GATTCTTT GGACAGTGTGGAAAGAGTC TCATCTGTAA
51 AGTGAACCTA TCAAAGATCA ATAGCAAAGT CCTGAAGAGT GGTAGCTGG
101 AGGATACATG TCTGGTAGAG CTCTCACTGG CCCTGGACCT GCGCCTACAG
151 GTCAGCGTCA GCAGTTGGCA TCTGACGGCT GTCACTGTGG ATGTGTGGAC
201 ACTCCATGCT GAGCTGCATG AAGGTCTCTT CCATAGTCAG CTACTGTGTC
251 ATGCCCGAGG CCGGATTCC AAATCAGTTT CTTGTTAGA TTTGACTGAG
301 AACTTGCTG AACCAACTCT GCCTGGGCCT ATACCTCCTC CAGCGGCTGC
351 CAGACCAAGT CAAGGTGAAG ATGGAGAACACMAGTGTGTG TGTTGTCTAT
401 GAACAGTCAA AAACBGCAC TTGACTKGAC ACTGAAGCTG CTGCAWTTTC
451 CTGTACCACC GTGATGAGGA CCAACTGCCG CTTCGAAGCY TCACAGCAAA
501 CTATGATATB GCACACGA

ug82rcon

1 GGAATCCA GGGTGCAATT GGTAGTCCAG GACCTGCAGG TCCCAGAGGA
51 CCAGTTGGAC CACATGGACC TCCTGGAAAA GATGGAACAA GTGGGCATCC
101 AGGTCTTATT GGACCACCAAG GTCTAGAGG AACAGAGGT GAAAGAGGAT
151 CTGAGGGCTC GCCAGGCCAC CCTGGACAGC CAGGACCCCC TGGACCCCC
201 GGTGCCCTG GTCCCTGCTG TGGTGGTGGT GCTGCTGCCA TTGCTGGAGT
251 TGGAGGTGAA AAGTCTGGTG GCTTTCACT CTATTATGGA GACGATCCAA
301 TGGATTCAA GATCAACACT GAAGAGATTA TGTCTTCACT CAAGTCTGTT
351 AATKGACAAA TAGAGAGTCT TATAAGCCCT GATKGKTCTC GAAAAAACCC
401 TKCTCGGGAA CTGCAGAGAC CTAAAAATTC TBBCACCCCG NDCTCTAGAG
451 TGGAGAATAC TGGNGTGATC CTAACCAAGG CTGTCGAGAT TGGATTGCTA
501 TAAAAGTATT CTGTGACA

54/472

ug83rcon

1 GGAATTCCCTC TGTATAGCCC TGGCTGTCCT GGAGCTCACT TTGTAGACCA
51 GGCTGGCCTC GAACTCAGAA ATCCGCCTGC CACTGCCTCC CAAGTGCAGG
101 GACTAAAGGC GTGTGCCACC ACGTCCAGCC TTGTTGTCT ATCAGTTCTA
151 CAGCACTCAA AGATAACCTT TTGAAATCAA TTTGCTATTT GGGTGACACA
201 ATTCAATCTT CATTCAAGCAA CTGCAAACCA ATTGAGTTCT TCATGCCAAC
251 TCAGAAATAC ATGATTACTA GCTTTACAA GCTGAGCCTC TCTACAGCTG
301 CTGGCAAAAAA TGGGGCACAG GGGAGGAGGT GATTTAAAAA CCTGCCATT
351 AAACTTATCT AGTCTWAMCA GTAGTCAGAG GGAAATATAC TTGAGAACAG
401 GGTAAAACCA GCTTTGGCCA CATTAAGTTCA ATGTTAGTGT AGAAAATTAA
451 AAATCACMAA CATCAAATCT CAGTCTACTG TGCAAATWTAA AGAGCCGAAT
501 TTTACCATTAA TACTCAGTT CTTTGGAKT CAATCTCAGC AACATTACT
551 AATAA

ug84rcon

1 GGAATTGGC GCCTTGGATC CATTCCATC TGGTTCTKCT GAGACCGTN
51 TNGCTCCCTC CCCGCAACAG CCAAAATGGT GAAGCTGATC GAGAGCAAGG
101 AAGCTTTCA GNNNNVHCCT GGNCGCNGCG GGAGACAAGC TTGTCGTGGT
151 GGACTTCTCN NCTACGTGGT GTGGACCTNN CNAAATGATC AAGCCCTTCT
201 TCCATNCCCT CTGTGACAAG TATTCCAATG TGGTGTTCCT TGAAGTGGAT
251 KGTGATGACT GCBRGGATGT

ug85rcon

1 GGAATTGTG ACTTGTCCAG AGTCTCAGCG CTGATAAAGG AGAAGCTGAA
51 AGTCCTCATC TCCAGCAGCT TKGCCTGCTT CYAGAGTCTG GGTTCTGAA
101 ACTGGGAAAG GAAATTCCT TCTGACCAGA AGAGTGGAAA GGAAATCTGT
151 TTGAACTGGA CAGAGTGGC AGGGTKGGAG AGGAGA

55/472

ug86rcon

1 GGAATCGACG CCCAGGCTCC ACAGGTGCA GCGCTTGTG TAGATGCTGG
51 CCTCTTCACT GAAGGCCTCC ACCACCTCTG GNBCCATGTA CTCAGCTGAC
101 CCACACGGGG TGAGCAGCT TGTTGTGGAG ATGGGGGAGC AGTCTCCATT
151 GAGTTTGATA CCACTGCCAA GGTCGAAGTC GCAGATCTTC ACTGGCGAGA
201 CCTGGTTGGG GTGCTCACAT AGGATGTTCT CTGGCTTAG GTCCCTGTNG
251 GCGATGCCTT TGTTATGCAG GAAGTCCAGG GSACTGGCCA CGTCCTGTAC
301 TACCACBSBG GSCTCCAGCN CGTTAAAGTG GCGCCTTCTA TGGATGTGGC
351 TTAGGATGGA TCCGCCACGC ATCTTCTCAA ACACCAGGTA GAAACGGTCC
401 TCCTCCTCAA AGADCTCAAT CAGTTCTAGA ACATTCCYAT GTCCCCSGC
451 AC

ug87rcon

1 GGAATTCCAA CGAACGCTTT GCCACACTCT GCACAGACGT GGACTCTGGG
51 ACCGTGGGTG TGCAAGATGCT TTCTCATAGC AGAGTTATCC CTGAACATCT
101 TTGTGCAGCC TTTATGAGGG CAAGCTAATT GTTCTTGGAG CATCATCTTC
151 TTTAATTTT CTTGGCTTCA TTCTGGAAA TTCTGCCAGT BBCTTAGGGT
201 CTGAGAGGTC AATTGGCCAG GTATCCCTYC CAGGDGGGAG TTTCTTBCCCT
251 GTCATATATT CCAGAATWAT CAGGAGGTG

ug88rcon

1 GGAATTGAA CGYYGGCAGT AAAGCAGTCG CTGCTGGACA AGGTCTGACC
51 CCCACCACTG GCCCACCCBS TTCTACCACA AGGACTTBNC CTCTGAAGGC
101 CAGTGGCTAC AGGTGGTAGC AGGTGGGCTG CYCTCACCCG TCCTGGNNTC
151 CCCCCCTCCA SCCTCCCTTC TCAGTCCCTA ATYBGCCTCT CCCACCCTCN
201 CCCAABCAT TBCTTCATCC ATAAGTBGGT CCCTTG

56/472

ug89rcon

1 GGAATTCAAGA ACCTGGCGGA CGAGGAGCCC TGGGCAGTTG GTATGGGCAG
51 TACAGGAACC ATTCGACTG TCTGGTCACC AAGTTTAAGA GCAATCTAAT
101 GAAGTGGGGG ACACTGTAAG CTAACTGAAG ATGAATGTGT GGKGGCTTT
151 WCTCAACAAC CATTCCCTA GAGTCTAATA TAAAAGTAGA TTTACATTTG
201 TGGGTAATCT GAAGCTGGTG ATTTCTAGTG CCTTTGGTAA TAATCAATAA
251 CNCAGCAGTT GCGTGGCAGA KKGATCCMCG CATGGATAAA TACAAATATT
301 AAATTAGCAT AATTTTTAA CTTTTGTAC AAATATACAT GCTTTTTNC
351 TTTTCTCAT CT

ug90rcon

1 GGAATTCTTT TTTTTTTTTT GTTTGTTTT GTTTGTTTT GTTTGTTTT
51 TGCTTTAAC ATAATCAGCC CAGAGCATT TTTGTTAAC AATGCCCTGT
101 TTTCATGAAA GTTCATAACA TCAGGGTTTT TAAAAAAAAT TAACTAAGGT
151 GCTTTAGAG TTGAATCTGT GAGTTACCGT CAGCACACTA GTGGGCTAAG
201 AGTGAGCAGG GTGTTTCAG AGAAACAAKC KKCYCCCCCA NNNCACAACT
251 TATTTTAA ACTTAGAAGT AACCTGTTGT HCCCCAGCCT GCYCTTGTC
301 ACCTGAGTKC CCAGA

ug91rcon

1 GGAATTCAAT AGATATTGCTAGACTTACC AATTCAAAGT TTTTGTCTT
51 CCTAGGTTGT CAGGGAAGTA TCACTACTAC YCTTCAGTTC AGAATTGCTG
101 AAGTAACTGA TTGTYTGATG ATTTGTGAAC ATGATCTTAA CTATGTGACT
151 AAAATATCAG ATCATTACAA TACTKCTCAA TTGATGGATA CATGTTGAAT
201 ATCAGTGTAT WCTTTGATGT TTTTWATTAC TTKACYCTT TTTAAACCT
251 A

57/472

ug92rcon

1 GAATTCCGAG CGGGCGAGCG CCGGGAGGGG GCCGGGAGCA GGGCAGCTCG
51 GGAGACCGGA CGGTAGCGGC GGCGGCGGCG GCGGGCTCGG CGCCCTCTTC
101 TCTGCAAGCC ATGTTTGCCA AAGGCAAAGG CTCGGCGGTG CCCTCGGACG
151 GGCAGGCTCG GGAAAAGTTA GCTTTATACG TCTACGAATA TTTACTGCAC
201 GTAGGAGCAC AGAAAATCTGC ACAGACCTTC TTATCAGAGA TTCGATGGGA
251 AAAAACATC ACACTGGGTG AACCNCTGG GTTCCTGCAC TCGTGGTGGT
301 GTGTATTTG GGACCTTAC TGTCAGCTC CTGAAAGG

ug93rcon

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATMTAA RGTGCAGAAG
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAA

ug94rcon

1 GAATTCGAAA AAGGAAACGG AAAAATTCTA CTTCCGGGTC AGATTTGAC
51 ACTAAAAADG GAAAATCAWC AGAACCTCT ATTATCTCTA AAAAGAAAHN
101 CCAGAACTWC TCAGAGTYHH CTAACTATGA CTCAGAGTTA GAGAGAGAGA
151 TAAAAACCAT GAGCAGAATT KGGGCTGCCA GAAAAAGTDT TCCAGAGAAA
201 AAAGAAGAGG ACTCTTCTGA AGATGAAAAA CAGGGCAAAA AAGTAGTGGA
251 TAATGGAGGG CATGAGAGGG CGAAGACMAC MCMAGAAGGG TCATCTGCTG
301 ATGACACTKG TGACACTGAA GGC

58/472

ug95rcon

1 GAATTCATGT CAAACAGGTA GTCATAACAC TCACACATGG TTTTDCCTT
51 CTCCCATGTT TCTCCCCACA CGTACACCCC ATGAYNCYGG ACAAGAACYG
101 CACAGGAGTC TKGGTACTCA TTCATGGCAT GAGCCATCCT TTCTTKAGA
151 TCCTTCTCTT CAGGAGTGTT CTCAATAATH GGTWCCACTA ACATATCATC
201 GTATCTGTAA TAGCCTCCCTG AGGTACATT CCTTATTCCCT TTGATCATCT
251 CTTGATGTGT AATTTAAAC TCCTGTCTG GAAACAGAAG GGTAGCCATC
301 ACAGCAGCTT TAGAGTGGGT ATGAATCACT GCGCCAGCTC CCTCTCATGG
351 TATAAGCATT CATGAAAAGA GGAGTGCCT GGCTTTWTT CAGCTTCTTA
401 GA

ug96

1 GAATTCGTGA TCATGAAGCC TAGTGCCTC ATTACACAAG GGGGGGGGAK
51 GKCTCAGGAC CTCTCCACCC CGGGAGTCAT TTCCCTGTGT TGCTGTGGAA
101 CTAATTGAA AAGTAAAGTC CAAGGAAACA CTGCTCTGTT TCTGAGACAT
151 GAAGAAATGA AAACACAAGA CAAAGCAAAG AGCGTGCCTA TTCTCTGGCC
201 CAC

ug96rcon

1 GGAATTCTGT ATCATGAAGC CTAGTDNNYT CATTACACAA GGGGGGGGGA
51 GGDTCAAGGNC TCTCCACCCC NNNAGTCATT THCCTGT

59/472

ug97rcon

1 GGAATTCGGA AGCTCCGCC CGGCTAAGGG GGCCAGCATC CTGGGGCCTG
51 CACCCATCCT GTACAAGATA CTGCCAGAG GGTCCTTCA AGGCCTGGC
101 AGTTCAAACA GCCACACTGG ACAGACAATA AATAATGCAG CTGCTCTG
151 GACAGCCTCC TGTGACCTAT CTCGTTCGA GCCACTCGAG TTTCGGCCAG
201 CTTGCTTGT TCAGAATGCC AAGCCCCGGCTGGTTCTG GCCACGTGGG
251 TACTATGGTC CCACTGAGGG CCAGTCTGAG CCTGCCTAAC AAAGGCTAAG
301 TAAGGKGGCT ATCCTGAAGA GAAWGCCCCTA CTTACTTTGA AA

ug98rcon

1 TGAATTCGGC CAAACGACTC CTGCTGGTCT CAACCCCGTA CTGCCGGGGG
51 CAACTAGCTT TTAAACGCCCT TTCTGGCGG TCAGCTACCA AGTGCCTGAA
101 GACCTGGTGT ATGCAGCGGA GGGGCAAGCT GCCTGGGCCA CTTACGTGGT
151 AGGTGCCTAC CACGGGGACA TAGGGGCTGG AGCGGCAGAA TTCGCTTATA
201 CTGGTTGGGA GGGTGGGAGT ATCCACTGTG GCTAGTTCAC ACCCTGCTTC
251 CCCTCCCCAA CAAGCACAAG GGGTGTGAGC CTCAACCCTA AACAGGCAAG
301 TRTATRATCG TTTTACTCTG GGCACACCTG AWTATGGTTT

ug99rcon

1 GGAATTCGA GCGGCCGCTT TTTTTTTTTT TTTTTTTAA AATCTAGTA
51 TTATTTAATG AGAACGCCACCC ACCCTGCCAT GTACAGGGTG CCCCGCACTC
101 GCTACTCACC CACCATGTTA AGGAAAAGCA CCAGGAAGTA CAGAGGGTCC
151 TCATGGCTGCTCTCCAGAGT TATAATTAA AGGTATTCT CCATGGTAAA
201 ACTACAATAG TTACATACCA AGGCAACT ACATGCTTAA CATACTCCC
251 TGAAAAAGAA TTCAATTGAG TCTAATCCCT GATGCAAGGC ACTTCAAAGC
301 ACCCGCGATA AAATGCCCAT GTAAACAGCA GTGCAGTTGC ACCTTBCCAA

60/472

ug100rcon

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTATCA
51 GTGATAAAAGT GTCAAGCATG ACAAAAGTTGC AGCCGAATAC AGTGATCCGT
101 BCNGCCCTGG ACCTGTTGAA CGAGGTCGGC GTAGACGGTC TGACGACACG
151 CAAACT

ug101rcon

1 GGAATTCCGC TTGACCTGCC TTGGGGTATG GGTACTGCTT TGCTTTGGGG
51 TACAGTGCTC CAGTAAACCG AGGTATGATC ATGTTAGGCA CCAACGAGTC
101 ATTTATCATC AGGAAGGCAA GTCTCTCTCC ATCGGGGGAC CACCAGTGGG
151 CGATATGAGA ATGCAGAAGT TCTTCTAGAA TAAATGAGTG TTATTTACA
201 TCAACTTCAT ATAACCAGTC AGCAATCCA TTAAAAATAA TGCCTTCCTT
251 TCCTGAAGAT GTTAGTCGTA AAGAACTGCT CTTGATATCA GGTTGATAGT
301 AGATATTGTT TTCAAAAATA TAAATCAGCT GCTGTCCTTG CACACCCCAG
351 GGCGCCATAC TGCAACACTT GAGTTCTCAA CTTCTGGGGG ATTHAACTTC
401 CACAMYTTCC C

61/472

ug102rcon

1 GGAATTCCCTC TCTCTCTCTC TCTCTCTCTT TTTCTCTCTC GCTCTCTGCC
51 TTTCTCTGTC TCTACTCCCT CAACTCTCTT CCCCCATGCC TGAATAACCT
101 CTATTCTATA CTACATGACT GGTCCCTCAG GGGGAAGGGG TGCTCAGCA
151 TGGGCCCGCA GAGGTACCCC CTTCCCCACA CCTGATGGCA CCAAACATAT
201 TCCTTCTCTC CTTCTCTCCC TGCTCATCGC TTGAGGTAGC ATGGTTCTCT
251 CTGGGAAGCT CTGGGTGCTG AGTCAGGGCT CTGCTCTGGC CCTCCCTGA
301 AACTCCATCA GAATCTACAT GCCCTGGAC TGTGGCAATT TGCTTCTTGG
351 ACCCTAACAA GACTTAAGT TYCTYGAAGG GCAAGGTTTC TTCCCACTAA
401 ATCCAGCACCA GGGCAAGACA CATAGTAGGT GTTCCACAAG CACCTAATGA
451 GTGCTCTGGG TTGTTGGGAT TTTTTTTGT TTGTTTGT TTGTTTGGG
501 KTTTGTGTTGT TGGTTAGTTT GTTAGYNSG TTTGCAACA AKGTCTCAAG
551 TGACATA

ug103rcon

1 GGAATTCAAT CATATTTATT GGATCAACAA ATCTCCTAGK NCCTTTACC
51 ACATACATT ACWCCTACTA CCCAACTATC CATAAATCTA AGTATAGCCA
101 TTCCACTATG AGCTGGWGHH GTAATTACAG DCTTCCGACA CAAACTAAAA
151 WHYTCACTTN CCCACTTCCT TCCACAAAGGA ACTCCAAATT TCAMCTAAWT
201 TCCAAATACT TAATTAATT TTGAAACAATT

62/472

ug104rcon

1 GGAATTCCAG ACTTGTGCTT CTTGATGTCT GTTGATGGG AGCTACTGAC
51 AGGCTTAGGG CTCAACCAAG TGGCTTGTAT TCTGAAAAT TCTACCTGGT
101 TATGCATATA ATTAGTAAGA CACTTAGAAT GAGCCTAATG TGAGCCTGGT
151 GGGTGGCTGT CCCGCTGAGA AAGGCCTTC GCAGTTAGA GGCATCTCTG
201 TTCTCTCCTT TATAGGTTGC CTACATAGAG AACTGCTGTC CTTTCATACT
251 GCTCTGTTGT AACCGTTTA TCTTCAGTTT CATTCTTGT ATCAAGATCT
301 TAAGCAGCAG CAGTTCTCAA CCTGTGGGTA GTACGCAACC CCTTGGGGA
351 GGTTGAATGA CTCTTCCC A GGGGAGCGTA TATTAGATTA TTTACGTTAC
401 GATTCATAGC AGTAGCAAGA TGACCWGTWA TAAAATATT TTATGGTGGG
451 GGGGCCACTA CATCARGGGG CGTACATTAA ATGGTTGTAA CATTWGCAAG
501 GTTGAGTACT CGCTCCATCT TTAAAACCA

ug106rcon

1 GGAATTCCCTC CCTTTGTCTG CAGTTTTCC CTTGACATT CATTCAATTCA
51 TTCATTCAATTCAAGTGA AGAGCTTCGT GTYCAGTATT CCAGACTCCG
101 ATGAAAHTYG AAAATCGATY CTTCTCTKKT CTAATTATTG TCTAATCA

ug107rcon

1 GGAATTCGCG GGTCTAAAAG TTCCCAACAC TTGGAGGGCT GGGTGGGGC
51 CGAAGCTAGG GCTGTGGGAA CGACAACCTCTGGGTGTATG ATGTTGATGG
101 TGAGCGTCTG CTGCACACCT ACTGTGTGCC AAGCACTTGT GCGTGTCTA
151 CATACTAAC CTCGTGACCA TGGAACHVGC TCATTTCCC AATCCGTCGA
201 CCGAGGAAGC AGAGACTGGA TGGTTGGCC AGBBTAGAGG GCAGTGGGGA
251 TTGGTTGGG CTGAGGTCTG CATCTTACC TTCTGAGTT CAGATTTCGA
301 AGAAGTATAC TCTGATCTGA GCACGGCAGG AGGGCAGAGG AGGCCAAGCG
351 GCAGGCATGG GTGCACCCA CTGCCATCTG GGCCGGCCTG GAGACCAGGA
401 GGCTCTGAAC GTACACACGA ACGCG

63/472

ug108rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGCT GGCGCGGATT CTTTATCACT
101 GATAAGTTGG TGGACATATT ATGTTTATCA GTGATAAAAGT GTCAAGCATG
151 ACAAAAGTTGC AGCCGAATAC AGTGATCCGT GCCGCCCTGG ACCTGTTGAA
201 CGAGGTCGGC GTAGACGGTC TGACGACACG CAAACTGGCG GAACGGTTGG
251 VGGTTCAGCA GCCGGCNCTT TACTGGCACT TCAGGAACAA GCAGGGCGCTG
301 CTCGACGCAC TGGCCGAAGC CATGCTGGCG GAGAATCATA CGCATTGGT
351 GCCGAGAGCC GACGACGACT GGCGCTCATT TCTGATCGGG AATNCCGC

ug109rcon

1 GGAATCTTCA CGTTACCTTG GAAAGAGAGC TCCAGAGCTT GCATTAAAC
51 TTCTGGGCAT CTCTGCTTCA ATGCCTTCT AACCAAGTGGC TCTTTTCGT
101 GTGCGGAAAC ATAAACCAGT GCACATCCA CATACTGCCA AGAAGTGAAA
151 GGGCTTCATA AGGAAGATGG GCACCAGGGA GGACCCTGGG CTTYCTCCTC
201 GGACATGAGC TTGCCACCTG KGTATGC TCTGDAAGGT TTCTTCTGTG
251 ACTGAGACTA GTAAACATTT TATTCCCTGC AGAGATGAGC TGTCTKGCA
301 TGGGGGGTGA CTTCACTAGA CAGGAGAGCC GACATGATGG CTTTA

ug110rcon

1 GAATTCTTA AAATCACTAA TCGACCTGHC GHCCTCAGMT TAGACCACAT
51 AGRCAACTTG ATTATTG

ug111rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GNGATCCACT AGTAACGGCH GCCAGTGTVG TGNGAATTHN CGCATCCACC
101 AAGATGNGAA TWHNACATNC CTTGTGAATA TNAGATGGGN NTATACCAAN
151 GGTNCTCGGN AWTGRRSC.T CTTSCTCTT AGG

64/472

ug112

1 GGAATTGAA GGATGCCCTG CTGAATCAGC TGTGAGCTCG GGACGGGGCA
51 GGTGGTGCTG TTGCAGGCAG GGACAGAAAT GCTGGGAGGA AGGTGACAAA
101 TAGTGAGCTT AGGCTCCCT CGGTCAAGTTA CAGCTGCCTT AACCTGAGG
151 CGGAGCAGGG CATGTGGGTG GTGAACAAGG CAGTGGACCA AGCAGAGCGC
201 TGCCCTGTGA GAAAGTGCAG AGGACAGTAC AGTGACAAGG ATCCAGAAC
251 GGGAGCCTGA AGTCTCCAC CGAAATGGCA TTTGGAGGAG TKKCTTCAGA
301 GAAGCATTGAGGAAGCCA GTTGGACAATTGGCCT

ug113rcon

1 GGAATTGAA GCTTCTTTT GCAAGAGATG GTCAATTAAAG ACAGTTACAW
51 CTGGTCACAC AATGCATAGG NCCACTGACC ACAAAAGTGT CAGAHCCAAT
101 TAATATAT

ug114rcon

1 GGAATCCCG GCTCGAGCGG CCGCTTTTT TTTTTTTTTT AAGACTTAAA
51 ATTGAATTAG TATTGTACA GAAAGGTGCA GGTGGAATAA CTCCCTCCGG
101 CCTAGGATCA AAGTTATGCG GAGAATTCTT GATGGACCCT TCCCCTGCC
151 CCAGTGGTGG CCCGAGTTGT TAAGTGCAT TGGTAGAGT AGATTCCAGT
201 CGGGTCATTG TGGTGGAGGA GTGGGGCAG TGGCAGGTAA GGGGGCTCAG
251 TTGCTGCAGC ACTGGCTCCG GCTGGCTGGG TTGCTCTCCT GCAGATCCAC
301 ACCTCTGGTT CGGCCCGGAG CCCCAGCCGC ATTCTGGGGC TCATTCTGG
351 GAAGCTTCTT AGCTATTGCC ATGAAAATT CATTCACGTT CATTGCAGTC
401 TTGGCAGACG TCTCCATGAA GAGCAAGCTG TTGTCATCTG CATAGGCTG
451 TGCTTCTGA AACTCCACAG CTCTCTGCT GGCCAGGTCT GCTTTGTTCC
501 CCGCTAGTGC AATGACGATG TTTGGGGCTG GGCCCTGCCTC TGTAACTCCT
551 TCACCCAATT CTTAGCCCGT GCAAAHGTAT CTSBGTTGG TGATGTCATA
601 GACCACA

65/472

ug115rcnlo

1 GGAATTCTTG TTTTCCTCCT GAGACACAGC CTTGAAAGCA GTCTCCTGCC
51 TCAGCCTCCT GTGCAGAAAT TATAGATGTG AGCCACTGCA CCTGGCTTCT
101 AAAACTTTG ACTATGTAGG GCTCTGTACT GTCATTCTT CTATATTCAT
151 TGACAATGGA TTCTGGACC CCCTAAGATA TCAAAATCAT TTTCTGAAGT
201 GGKATAATAT TTGTATATCC CCTATACCTG TAACACCCAA TACAATATAG
251 ATGTCATGTA AACAGTTATT AAGCTGTCTG TCTAGTTAG GGTGGAACGA
301 CAAGGAAAAA AAGGTATATT TAGCACAGAT GTAATTTTW AAAAATGAAA
351 TGTTTCAAT TTGTGATTCTG TTGAAGCTGT AGATGCAAAA CTCAMGGGAC
401 ATTAAAAGTC AACTATATAT CATTGGGTGA CTGATCTTCT GGTCCATTAA
451 AACTTTGAAT TCCCTATAAC ACAACTCAAA GAGAACAYGA TGGAGAGCCT
501 AGGTCTGTAT CCAATCAATC

ug115rcon

1 GAATTCTTGT TTHHTCCTG AGACACAGCC TTGAAANCAG TCTCCTDCHT
51 CADCCTCCYG TNAGAAATT ATAGATGT

ug116rcon

1 GGAATTCTCC TGCTCTGGCT CACCTGTCT GCTCGGGGCT CCAGCTGATC
51 TGTGCTGTTCTGGTAGCGCTGCTCACGTC GGGCAGCCTC CTGCAGCTCC
101 CGCTCTCGTC GCTCCTCCTC CAACCGCTGC CGCTCCTCTT CGGCACGCCG
151 CTTCTCCTCC AGGCGGCGGT TCTCTTCTTC CTTCTCAGCT TTGGBCCAGA
201 AGTTATCCTT GCCGACTCTCTTGATCTCAG ATATGGCATT GGTCTCTGG
251 TACACAGAGC CCACTGGGGC CTGCBGCCTA CATCCTGGAA GGAGGTGCTT
301 TCCTTATGGA AGCTGTWGTT GGCCCCAGAG GCCTTNGCAA CCTTC

66/472

ug117

1 GAATTCTAG GAAAACTCTA AATGAAAGTA AATGTCTGCC ACTCACTGCC
51 CTCAGCTATA ATCCAACCAG TGTACTTTCT TCTCATCCTG CAGACCAGAA
101 CAAGTCCCAA AGCTCTGGCA ATATTAATAC AGCAAGACAA GTAACCTTTT
151 TTTTTCAAG TCTTGAGGAT GAACCAGAAG ACTTAGTTT AAGATACCAA
201 GTCAAAGTTG CACGTTAACCTGGACCACAG TCAGGGCCCCA GAHMVCTGGG
251 AGTGTGGTTC ACACCTGTAA CCAGCACTCA CAGAGGACAA TGTGCCTGCT
301 GCAAACCCAA GSCAGCTTKC ACTGGGAGTC TGACCACTGA AG

ug118

1 GGAATTCGCT GAGTCTAACAAATGAGGCTT ATAGTTGGT AGGAGTTAAT
51 AAACCTCTTA GTAATTATAT ATTGACTGTC TACTATTTAT ATGCCAGGTT
101 ACTCTGTGGA GATTATTGGC AAATCTAGAA GTGAAATTGC TGACTGGGTT
151 TTTAATATAG TAAGGAAAAT GACATATACA CATAATAGTA TTACCAGGCA
201 ATCAAAGATA GATACTAATT CAGTGATACT TAGAACATCAGG GGAGGCATTG
251 CTTTTAATAG GTGAGGCAAC TGGGCCTTCA GTGATGAGTA ATGAGGAACA
301 ATATGGRATT CCGTGCAGCA GAAAAGAAGG TATMGACATG TAGGTKAGGA
351 AAACTGCMGC AGTGTATT

ug119

1 GGAATCCCC GGCTCGAGCG GCCGCTTTTTTTACTATTT TTATTAGATA
51 TTTTCTTTAT ATACATCTCA AATGCTATCC CGAAAGTTCC CTATACCCCTC
101 CCTCTGCCCT GCTCCCCTAC CCACCCACTC CTGCTTCTTG GCCCTGGCAT
151 TCCTCTGTAC TGGAGCATAT AAAGTTGCA ATACCAAGGG GCCTCTCTTC
201 CCAGTGATGG TTGACTAGGC CATCTCTGC TACATATGTA GATAGAGACT
251 CATATCTACA TATGAGTCTC YGGGGGTCYT CGTTA

67/472

ug120rcon

1 GGAATTCCAT AAGTACTATT ATTTTATTAA AAATTTAAG TTGAGGGCTCT
51 AATTAGACAT CAGCCTGATT TCTTGAGTT CCACACACAC ACACACACAC
101 ACACACACAC ACACACACAC ACACACTGTC TTCAGCAGTG AGACCTTACA
151 ATCACTTCTT AGAAAACAAT TGATAAGTAG CCTTGCCAAT AGCCAGTGTT
201 ATTTTGGGAT TCCATGGGAT TTCACTGGAGT CAACATTGGT CAGCAACTCA
251 ATTAGATGTA AGCCATTCCCT GGGACTGAAA GGTTTCCTTG GAGAGGAAAG
301 ATGTCTAGTT GGAGTACTGT TTCCCTTGTT GTTGTGAC TCCATTAGA
351 TTTAATCATA TATGTATATA TTTAAGAAG TTTCAACTGT AGTAGGTTTC
401 CATATGGACC CCAAAANNTCTTAGTGCTAA CTGTCCCTCC CTG

ug121

1 GGAATTCCCA ACTCCCACCT CGCTGAGGGC TGTGCCATGG GCTCCTGTAA
51 CCTTGCTCTG CTCTTCAACA AAGAGGACCA GTGGGAGGAA ACTTGTGGGC
101 CCAGCATTCC CAGGCTAAGG AACTGGGGGG GAGGGCCAGT TGGATGATCC
151 CCAGGGTATT AAAACCTCAC TTTGGAGAAG AGGCAGAGCT GTGTTAGAA
201 AGKCAGGKCA GATGTGGGAA GAGCATTGCA ACTBCAGGG

ug122rcon

1 GGCAGKTAGGC GAGCAGCGCC TGCCTGAAGC TGCAGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCSCCGGC TGCTGAACCC CCAACCGTTC NNCCAGTTG
201 CNTGTCGTCA GACCGTCTAC NMCGACCTCG TTCAACAGGT CCAGGGBCNG
251 HAHCGGATYA CTGTATTNGG CTGCAACTTT GTCATGCTTG AACACTTAT
301 CACTGATAAA CATAAATATG TYCACCAACT TATCAGTGAT AAAGAA

68/472

ug123

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT CATAATTGAT TATTTTATTAA
101 AGATAGTTGW TTAATAACTG AAAACCAGAG GTAAAGTAAC AAATTCCAAA
151 GGCTTTTAA AGGCATAAWA TTTWAAGGCT ATTCAAATC TTCTTGGGAT
201 GRAAGAAAAA TCCCTTT

ug124

1 GGAATTCAAC CGGCTCGAGC SGCCGCTTT TTTTTTTTTT TTTTTTCCCC
51 TCCTTTTTT TTTTTTTAAA GGAAAACCAG TCAAATCATG AAGCCACATA
101 CGCTAGAGAA GCTGAATCCA GGTCCCAAAG GCGCTGTCAT AAAGGAGCAA
151 GTGGGACCCG CACCCCTTTT TTTTATATAA TACAAGTGCC TTAGCATGTG
201 TCGCAGCTGT CACCACTACA GTAAGCYGGT TTACAGATGT TTCCCVAVCG
251 GAATTCCACC ACACGGCGG CCGCTCGAGC ATGCATCTAG AGGGCCCWT
301 TCGCCCTAT

ug125

1 GGAATTCCAT ATTCCAGCCT CTACCAAAAG TGCTGGATCC TGATTTGTGC
51 AATACTAGGG ACTGAACCT GATCTTGTA TAAACTAGGC AACTATCAA
101 CTGATAAAAGT GCACTGGGAT CTTGGAAGTT CTGTACTTGT GATTCTGGAC
151 TTTTGGAAAGT CAGAGAATT TAATTACCCA GTGAGTCGAC TGCTGCTACT
201 CAAAATTTTC ATTAGTATCT ACGTGGGGGG GGGGGGCTTA GAAATGTAAA
251 CMTGGGGAGC TGGAGAGATG GCTCAGTGGT TAAGAGCACT GACTGATCTT
301 CCCATGTGGT GGCTCACACC ATTNTTTWAT GGGATCTGAT GCCCTCTTCT
351 GGTGCTGTCT GAAGACAGCV TCAGTGTACA TATATAAATA AAAGAAATGT
401 AACATGCMG CTTGGGAAGC AAGTA

69/472

ug126

1 GGAATTCCGC GCAGGGCACGG AGCAGGACGG CGGGACGGCC GGCCCTCCCG
51 GCCGGAGCCC GCAGGGCGCGG CHGCGGGCG GTGGCCCAGG GCAGGCGCCT
101 ACCCCCCCCC CCCCCCAGCA GCATGTATG GTTTAGTGGC CTCCTGGTTC
151 CCAAAGTGGA TGAACGGAAA ACAGCTTGGG GGGAACGCAA TGGGCAGAAG
201 CGCCCCACGCC ACGCGAATCG AGCCAGTGGC TTCTGCVAC CTCGCTACAT
251 GAGCTGCCTC AAGAATGCGG AGCCACCCAG CCCCCACTCCT GCAGCTCACA
301 CTCGGTGCCC CTSGCAGGAT GAAGCCTCA TCAGGAGGGC GGGCCCGGGC
351 AGGGGTGT

ug127

1 GGAATTCGTA CAGGTTAAC AGAATTGAGA ATGCCCTGAA GACAATAGAG
51 AGTGCACCC AGCAGACAGA CAAACTGAAG GAGCTTATG GACAAGTGCT
101 GTACCGCCTG GAACGCTACG ATGAGTGCTT GGCTGTGTAC AGAGATCTG
151 TCCGGAACTC CCAGGACGAC TATGATGAGG AGAGGAAAAC AAACCTGTCA
201 GCGGTCGTTG CCGCTCAGAG CAACTGGGAA AAAGTGGTTC CTGAGAACTT
251 GGGTCTCCAA GAAGGCACAC ACGAGCTCTG TTACAACGCT GCATGTGCAC
301 TGATAGGGCA AGGCCAGCTG ACCCAGGCCA TGAAAATYCT GCAAAAAACTG
351 AAGATCTTAT GTCGCCGTCA TTTTCA

ug128

1 GGAATTCTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
101 CCAAATTGTT TTGATCCTTA TAGATTTGGA GGGCCAAC TG CATTTCAT
151 TTATACTTTK KGCAGGGTAA GTACTTAAA AAACAATTAA TTGRCTTAAA
201 TCCATTAACA TTTWTGTAAG GGATTATATG GTCAGCCATT CCTTGGTATA

70/472

ug129

1 GGAATTCTGGAA AAATGTTAGC ATTTAATTAA CCTCCGGTGT GGCTTTAAG
51 CCACCAGAAC ACAGGCACCT CCAACACCCCT TAATCTTCTC CTCAGCTCTT
101 CTGCTGAAGA ATTTGGCCTT CACGATGACA GGTGCTTAG GGAGCTTCC
151 CTTGCCAGA ACTTTGTAGT AGCCTGATCG AACAAACATCA ATGATGGGAG
201 CAACTCCAGT CTTGTTHTC MGCATTGACC CGTGTCTGCH CGCTGACCAA
251 TGTCCACAGT TTATCCAGGT TGACTGTTGG GCAGAAGCTC TGGTT CCTCT
301 TCAAGTGGTA ATGCCGCATA CCAACTTCC CAAAGTAACC TGGGTGATAT
351 TTGTCAAAGT TGATCCTCGT GGTGCATGCC TCCAGCATTCC

ug130

1 GGAATTCCCTG AAGGCTGAGG CTGTGAAGAA GGACCGCAGA AAGAAGCTGA
51 CCCAGTCCAA GTTGTGGGG GGTGCAGAGA ACACTGCCA CCCCAGAGTC
101 ATCCCTGCAC CTGAGATGAG ACAGGAATCC GAACAAGGCC CCTGCCGCAG
151 ACACATGGAA GCTTCCCTCC AGGAGTTCAA AGCCAGCCCA CGCATGGTGC
201 CCCGTRCTGT GTACCTGCCA AACTGTGACC GCAAAGGATT CTACAAGAGA
251 AAGCAGTGTA ARCCCWCCCG TGCCGCAAAC GTGGCATCTG CTGGTGTGTG
301 GACAAGTACG GAATGAAGCT GCCGGGCATG GAGTACGTGG ATGGGGACTT
351 TCAGTGCCAC RCCTTCGACA GCAGTAACGT TGAGTGA

71/472

ug130r2

1 GAATTCCCTG GAGAAGCCTG GAGCTCCACA TGCAAGAGAAA TGATCTGTCC
51 TTGTGTCTCG TTCTGATTAA AAACAAAAAC AATCAAATAA AAAACAAAAT
101 KGAACAAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTCT GAAGAGAATT
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug131

1 GGAATTCGCA GAGGCAGGCA GATCCCTGTG CGTTTGAGGT CAGCATGGTC
51 TACAGAGGGA GTTCCAGGAC AGCCAGGGCT GTAGAAAAAC CCTGTCTGGA
101 AAAACCAAAC ACCACCACAG AATAAAACAA GGAGAAACAG ACTTGTTC
151 AAAGTGGCTC TTCTGAAGCC CCTGCTCTGA AAGTTCACGT GACCACAGCC
201 ATGCCCTCT TTCATCTGAG TCACTGGCTT AAGGCAAGGC TGCGCCGAGA
251 CCATGAGACC GTGAGACCAG ATGGTGGTGT GACATGGAGG GAAGGCGGAG
301 GTCTGGCTGC TGTGCAGCCC TAGSCCCAGT CCAAGAGCAC CTGGTCTTCC
351 GAGTCAGCCT AGGTCACTGG TAGTCATCAA GCTCACTTCT GAGCAGGGAA
401 AGATCCAGAG CGCCAARCCC AGCCCCGTCC CACAGATCCA

ug132

1 GGAATTGTT TGAATTCCCT CAACACTACACT CAGAGTTCAA GTGCAGACAC
51 ACTGTGTCCC AGGCTCCGG TTCCCTCCAAG GGATGACAAG TGTGTGCCAA
101 TACCTCCGAC ACAAGTTTG GCACAAGTT CTTGCACTCA ATACTCTCAC
151 AAGGGCAGCA CTTCACTGCG GACTAAGCTA TACCACAGCC CTGAGAATGG
201 AATTTTCCA AGGTTCCAT TTAGAGTTGG ATCAACTGTC CTCTCTCTGT
251 CGCTGGGATG ACATGAGAAG CTTACAGGGT GGCACAGGTG CTGAACTCAG
301 TGCTGATTTG TGGCGCTCTC CCTCCTTCTG CTTCCCTTTG TAACCTCCGG
351 ACATGTGCTG GTCCSCTGCC CCTCACAGTA GGGCTGCAC TGTAAGTATT
401 GTCTTATAGA GGAGAAGACT GATCAGGGAG AGGTTGAGCA AGCAGAAC

72/472

ug133

1 GGAATTCCAG GTTATTATTT TGTTTTGGT GTTTGTTT GTATTTGG
51 AGATAAGGTC TCACTATGTG GCCCTGGCTG GCCTGGAATT TACAGAGGTC
101 AGCCTGCCTC TGCCCTTAA GTGCTGCAATTAAAGTCCTG GACTATCACT
151 TCAGGCCCTC TGAGGTCAGT TTTAACAGC GGAAATACTT TTATCATTCT
201 GGCTTGCTC TTCCCAGATA CCTACACTCT TTCTTCAGTG ATACTCAGGS
251 CTGAACCAAC TTTTATCATT CTGGCTTGC TCTTCCGAATTCCACCACAC
301 TGGCGGCCGC TCGAGCATGC ATCTAGAGGG CCCAAYCCGC CCCTATAGTG
351 AGTCGTATYA CAATTCACTT KTCGTCGTTT TACAACGTCG TGACTGGGAA
401 A

ug134

1 GGAATTCCCC GGCTCGAGCG CCGCTTTTT TTTTTTTTT TTTGAAAGTT
51 TCAGATGTTT TTATTCAAAG GTTCTAAAAA GAAATAAAAC AGAAAAAGCT
101 AACAAATCTGA TCAAATGTAC AGTTCAAAAAA TGTCTTTGG CGTTAACAA
151 GTCCTAGGAA AGAAAATAC AGAGTCATCT TGAACCGGTA AATAAGTCAC
201 CACTGGCAAG TATGTAGCAC TAGTAGAACAA AAAATAAAAAA ATTAACCTCTC
251 TTGATCATAT AGATATCTCT ATGAAAATCT TTTTTTCAA TCTGTACAAA
301 AGGTCTTCT TCATAAAATTA ATTTTTTTA TAATTAAATG GCTGTCTACC
351 CCGGCTCGAG CGCCGCTCG

73/472

ug135

1 GGAATTCTATA ATTAATAGCA ACAAACGGCC GTCTCGCTGC CTGCCGCAGC
51 CGCAGGGTGC TTTTCAGAC CTGACGAGCA ATTTTTGTGA AATACGTAGT
101 ACGAAGGAAG AAAGCTTGGC GGGTCTTCAC TGCAAGACTTG GGGCTTCCGG
151 TGTTCCGGAC CGGCATGCC TGCAAGGCCT GCCGGGACAT GTGGCTTCTT
201 GCRCGCGGGT CCTCTGCAGT CGGGCTGGGA GACTTCTCTT CGTCTGACTG
251 GGTAGGCATT TTCAGACCTC CATACTTTTC CAATACAGCC AACAGGTCGC
301 VCAGAGTCTA CACTGCATGT TAGGTGGGCC CCAGGAATAC CACTGATGAG
351 ACTGTGTGGC GTASAGC

ug136rcon

1 GGAATTCAA GAGGTCTGCT AGCCGGTAGA CATCAAGGAT ATTCTCCTCA
51 TCTACCCATG ACATGAGGAA ATCACAGCAG AAGTGGATAA TTTCTGGTAT
101 CTGAAGTTGG CAGGCAGCAA CCAGGGTCTC CTGCACATTG CTCAGGCTGA
151 GCTCTAGTTC AGAAGTGTAT ATGAAGTGCA GGATTGGCA CATGGCATTG
201 TAAGACACAC CGTGGATCAA GACCTCTTCC WGCTCCAWCT CCTTCAATCC
251 CCCAGCAAAC ATT CCTCTGA AATAATACA CGATGCAGCT AGCAGAATCC
301 GATGGGCCTC AATGTGCTTC CCCTCAGTGA CCAGGCCAAG TACCTGAATC
351 CTCTTACTGG GGAAATHGGA AMAATTMNN TGGCTTT

74/472

ug137rcon

1 GAATTCTTT TGCCTATTT CATGTGTAAA TTCATTCAAG TGATACAAGA
51 GCCCTAAAAA TCAACCCTG ATTCACTAAA AAATATTTAT TTAAAAAA
101 GAGAGAGAGG GCCCAGGCAT GGTAGCTCAC ACATGTTAT AATCACACAC
151 TTGGGAGGGT GAGCCAAAGA ACTGCCATGA ATGTGGAGTG AGCATGGTT
201 AAAATTCAAC CCTGTCTCCA AAACAGGAGA GGGAAAGGGGG TGGGAGATT
251 GAAAATTCAAT ATACAGGAGA AATTAACAGA CAATATTATC AGAAAACCAA
301 AGTACACTTA AAACTGCACC ATCACTCTGG TTCATCAGGC CAGAGTGAAT
351 GCTTGTGACT ACACTGTCGT CCACCTGCTG AGGATGTACT TATTCTTAC
401 TACAATAACT TCTAAAGTAT NCTCATAGTT HACAGCAKK CCAGANCCTA
451 ATAATTATCT AATCTAGNGT TTCTAACCT TNGCGATCAC AAATAATCTA
501 TGTACTAAGA CACT

ug138

1 GATTCTTAT CACTGATAAG TTGGTGGACA TATTATGTTT ATCAGTGCAT
51 AAMGCTGCTC AAGCCATGCA CAAAGCTGCG CCGCGCCCGA ATVCVGTGA

ug139

1 GAATTGGCA AAGGGAAGAC ACCTCCAGCT CAGCCCAGAA GCAAAGCTGC
51 TGAGGGGGAC GTGGTACCAAG GTGGGGCTCA GCACTCATCC TCCCCGAGCA
101 GGGCATACGG GTTTCGGGCT GTTAGGCAGG ACCCAGGATC TGAAGTTGGG
151 GTGTCTCAT CTCCAAATCC CTCTCATCT GCATCCCGGT CCTCCTCTCC
201 TTACTCCWCA CAGGAGCTGC TCAGTTCCCTC CTCCCTTCC TCCTMMTCAT
251 CACCTGCCGG CCCCACCCCTG CCCTGCGACA GACCAGCTCT GCAGTCTCTG
301 GGTGAGACTC CCAGGTGCCT CTCTGTTCGC CTGTAACCAG GAGGGTAGAA
351 ACATAGG

75/472

ug140

1 GGAATTCTGGG GAGCTATGGG TAGGAAGTGG TCCCAGAGAG GTTTAGGTG
51 GAAGAACATCAG GAGGAGTCAC AGGTCAACTT GCAGAATTAC TGAAGAATTAA
101 GGACCCAAA TTTTATGCCA ATTGATCTAT TCCCCCTTTT TTATTTCTGG
151 GGCGGGTTTT TTCCCTTTTT TTTTAATCC CTCCTTAGCT TTTTATGCGC
201 TCATAATCAA TTGTACCCAT TCCCTACATA ACGGGAGCAG TGATCAGGTA
251 ATGAATGCAT CGAGCCATCA ACACCAGCTA GAGCCATCAA CACCGGCTAC
301 CACAATGTCC TGCTCTCAC AACCTTGATT TTTTTTTTT TATCTCTCTC
351 TATCGCTTGG CCTGAGTTGG GAGTGGAGTC TCTGTGGGGT GCGCCACDC
401 ACCCACAGAG AAATAAAAGG AATTGAGAAG GTCGCTACCT GGCCTGACTW
451 CTGGGGACAG TGCTGGTCCC CAGAAGTTCT GAGGAGTGGA GGVGGCGTGV
501 GCACGATGTC CCCTCACGGT GTTAGGAAGG YGCTGGAGG CCACAAAAGA
551 TGGG

ug141rcon

1 GGAATTCTT AACACTAATA GAAATAAAATC CATTAAAATC TTTGAAAGAA
51 AGAAAAGAAA AAGAGTGGGC TGAGACTCCT GCTAACCTCT GACCTACACT
101 GACCTGACTG CTATGGCAC TACATATTCA GTAACAAACT CAAAACCTTG
151 AGGAACCTG TGCTTCAGG CATACCATGA CAAGCTAGCA TGCCCAAGGC
201 CCTGTGCACC ATCTCCAACG CAGAAAGATA AGAGATACAC TTACATGTTG
251 GCAGGATCTT TAGTATTACC ACCAGGTCAG CCACATTGTG TCCTGTAGTC
301 ATTGTTCCCT TTTTATATGA TCCTACCTGT CGGGACTTCT TCAATTGCA
351 CTTTCAAATG TTCCTCGGGG GCCACAAATC AAGTTGTCAA TCACATTGTT
401 GATTTTTGT CACCAAAGAA AGGATGGAAG CCTGCTCAGC AGAAATTATG
451 GGGCAAGGTC TTGATTCTC TTTCAGCAAG GCTTCACCTG AAAGGAGG

76/472

ug142

1 GGAATTCTTT AAATATGACT ATGGCCAGGC AGTGGTGGTG CACACCTTTA
51 TCCCAGCCCT CAGGAGGCAG AGGCAAGGAG GATCTCTGTG AGTCTGAGGC
101 CATCTTGGTC TACAGAGTGA GCTTCAGAAA AGGCAAGGAT ACACAGAAAC
151 CCTGTCTTGA AAAACCATAAC ATAAACATAAC CCTCTGGCCC CTTTCTTCTC
201 ATCACGAAGA AATAGGGAGG GTACATAAAT TGTTTAGATT TAGCTTAGAA
251 GTTTATTTAC ATGTCTACGA GTGCTCTCCT GTGGAGCTCA AGAGAGGGTG
301 TCTGATCCTC CGGAAGAGTT ACAAGAAGGC TGTGAGCTGC CACGTGGCTG
351 CAAGGAACCA AATCTACTTG GTGTTCTTGG GAACACCAGT AGGTAAATCT
401 CTTAATTACT MGAGCTATCT CTCCAGGCTC CTAGATTCTC AGGAAAAAAA
451 CCTGACTAATT

Sequence Data Form
Sequence Listing
Sequence 1

77/472

ug143

1 GGAATTCTGTA GGGGTGGCTC TGTCCAGTGA GCCAATCATT CCTTAAGACC
51 CTTCTGACCC CTCCGTACC ATCGGGACTT AATCACCAAGT CTGGGGAGGC
101 ATTAGGGAAG GGGCAAGGGG TGCGAGAGGTT AACCTCAGG AGAGGAAC
151 AAAACCCCTTC AATGGGGCTA TGTGATAACGG AGACTTCCTG GGATGTGTCA
201 CTGGGTAATC AACTAAAAG CTTCCCTCTG GTTCTTCTCA CAGGCTAGCC
251 TAGAAGGAAA GCTTTGCTA GGTKGAGGTC TKGGGGAGGT CTTAGTGGTT
301 CCTAACCCCC TTTCTTGCC TTTACTGTCT GTCATGCTTG TACACCCCTT
351 THAGAGCCCC AMCCCCCAHC CCCTKGCCCC TGCTCTTGG TCTTCTCTGT
401 GGGAACCTAA CYTTGAGAAA ACTTGTGTCC CAAATTGGCA TTTGCTCAGG
451 GATATCTSAA TTTATKTCTC TTCCAGT

ug144

1 GGAATTCAAA CCGGCTCGCG CGCCGCTTT TTTTTTTTT TTTAATGCTG
51 TTGTTTATCT TATATATGAT AAAGTAAATG TCTTATTCC TATGTTGTTG
101 AAAACTACCC AGTAATAATC CTGGAGTTCA CTGTGTAGA CCTGGAGGA
151 GTGGGCAAAG AGCAGCAGCA CAATAGTGTG TGTTGTGTTT AGGTTGGAAG
201 TTCTAACAGG CAAGTCAGGA ATTCTTATAT CTGTAGCTCC TCCAGAACCC
251 CCAGGCACAG GCGGGGCTCG GTGTGAGCAT GTGCACACAG CYCCACCCCT
301 TCACCCCCACC CCCDYHYCAG CCAGGTGTTT AGTGCAGTGA GATGTGAAGA
351 CTCTGCTTAG CAACCAGCAG TAAGTCCTGT CTCAATCGAT GCTAGGTCGC
401 TGTGAGTTAA GACAGGGACT

78/472

ug145

1 GGAATTCTG AGGACATGAC ATCCAAAGAC TACTACTTG ACTCCTATGC
51 CCACTTGGC ATCCACGAGG AGATGCTGAA GGATGAGGTG CGCACCCCTCA
101 CATAACCGCAA CTCCATGTTT CACAATCGGC ATCTCTCAA AGACAAGGTG
151 GTGCTGGATG TGGGCTCAGG CACTGGCATC CTCTGCATGT TTGCTGCCAA
201 GGCGGGGGCC CGCAAGGTTA TTGGGGATTG AGTGTCCAG TATCTCCGAT
251 TATGCTGTGA AGATTGTCAA AGCCAMCARG TTAGACCATG TTGGTGACCA
301 T

ug146

1 GGAATTCTGTT CAGCAGTCCT GGAGACTGAG CCCTCAACTG AGGGCATCTG
51 ACATTCTCTC CAAGTTGAAG GTCTGATGCA AAACCAATAT TTTGTTGGT
101 GTGTGAGTAT ATATCCCCAC ACTTGGAGG CCCGCAGAAG TAACCTGTGT
151 TGGAGAAACT GACTCTGGTT TTACTTAAG AGGAAAAGGG GGAGAGAAC
201 TAGTGATGTG TTTCCCTGAT AGACTTTATA TCATATAATA TAAATCACAC
251 ATGGGGAATA CCAAAAGGCA AAAATAAGCA AGCCACTGTT ACCTAACTCA
301 GAAAATTATA CTCTTCATCC ATTTCAGGGA TGAAAACAAT TGCTGTCAAT
351 TTACAAGCCA ACTTTCAAGG CAGAATTAG GTTATCCAAT CAGGATTTAG
401 AATATCGAAC ATCTTCATAA TCTAAATTAA TATTATATVG TCACAAATAT
451 CAGGACCC

79/472

ug147

1 GGAATTGCT TTTAAGGAA TGCTGGTGGT GCCTGGGTAG ATAATTACAT
51 CACTGTTCC ACTGTGTTGA CACTGTTTC CTATGGATC TCCTCCATT
101 CTAGCTTCT CTGCTATGCA TTTCTTCAC AGCGCAGCTT GCGGTCGTT
151 GCTGAAAATT ATAAGCTCTG CATA GTGTTG GCTTACTGT GATGACATGT
201 TTCTTCTTT TTAGCTGGCC CACACCTTC TAGGGTCCAA CTACAGGATA
251 GATTACAGAC TTTCCATTAG TGTCTATTTC TTTTACTCTG TGTAGACTTT
301 AGAAAGTCTA ATCAATCCAG AGATGGGCCA ATT CAGAATT GACTATAATT
351 GAACACCTGC TAAAAGTATT TATGGGAGGA TTGACACACA GCATGAGTTA
401 TTTGACTTTT GTAGGATATT TAAAATCATTG CAGTTCA TGT AACAGTB
451 GTGGTCTTAA AATT CACATA ATAAAGCAGT CCTGTTCAA AAAA AAAAATT
501 TT

ug148

1 GGAATTCCGC CCTTGACAC TGCAACAGCA TGTCATCTA CAAGTGCCAA
51 GCTGCATTG TAGCTGTCCT GAGACCTGAG CTGTCATGTG ACCCTTCAAT
101 GGCAGGCTGG ACACACTATG AAGGGTAAGG TCCAAACTTG GTCCAGCCAG
151 TAAGAAAATC ACGGAAAATC TAGCTTCACA ACAGGAGCTC AAAGAACCTT
201 ACATACTGGG CATTTCACAT CAGGCACATG TCTGGGGAGA GGACTGGATA
251 CCAGACCTTA TAATCAGCCT AAAC TTGCTA AGAACAAATAA TTAGGTCCAT
301 TTTAAAGAGG TTCTAGCCAC TATTCTTGAA ACTGATTTA CTAAGTATAA
351 ATCCTCAYYG AAATCTGTTCA AAAATAGGT TATTGAAAGC AACTCCTGTC

80/472

ug149rcon

1 GAATTCTTT GCTTGATCAA TATGTTTATT GTCTTATGA AAAAATCTTC
51 ATAGAAAACT GCTTAGCTT TCAGCAGCCC TTCCCTGAGC TCTGAGGAAG
101 CTTGCCCTCT TTTGAGCAAC CCGATCTTC TTCTGGCAA GAGACATTT
151 GGGACGATT CACCTCTTCT TCTTCACCTC TCTCTGGGC TTCTTCTCAT
201 AGACTGGATT CTCTCGGATA GCAGCATGAG CTTCTTATA CATCTCCTCC
251 ATCATGTCTG GAGTTACGTT GTTCTTGATG TACTGAGAGA ACTGTTCTT
301 ATACGCATCT TCATCTTCCT CCATTAGGTA GCGCATGTAG TCTGCCACAT
351 TCTGACCCAT GATGTGCTTC CGATGTACCT CTGCATTGAA CTCCTTGCYT
401 TCAGAGTCAT AACCAAGGGAA TYGTTGGTA CTATGAGGGAA TAGACAAGCT
451 TCCATHCACA RGT

ug150rcon

1 GGAATTCCGG CTTCTGAGCA GATCAGACTC TCCTCGTTVN CGCASTCRCD
51 CVGCTCCTTC CAGCAACCAT GTCTGACAAA CCCGATATGG CTGAGATCGA
101 GAAATTGAT AAGTCGAAGT TGAAGAAAAC AGAAACGCAA GAGAAAAATC
151 CTCNRCMTTC AAAAGAAACA ATTGAACAAG AGAAGCAA

ug151rcon

1 GGAATTCCCTC TGACCTCGCT GTCTCTTCTC TCCTCTCCTC TGCTCTACCT
51 CTGTCTCACCC TCTGTCAAGT TCTATGAATG ACTGATAGAA AGCTAGTCTG
101 CAACCATTGCG CAGGTAGAA ATTTCCTCTG CTCTGCAGGG AGACATAACC
151 CTCTGTTGG CGATGGAGAA TGAGGAGCAG AGCAGTGAGC CCCTGGGGAG
201 GCTGTAATTAGAWCCACTC CTGNCTGAGC CTCGSGCAGA GCCTCACTCG
251 SGATTCTCCC TGTAACCTCCC CAACAC

81/472

ug152rcon

1 GGAATTCTGGAA ATTCCCTTAA ACTACAAGGA TTTTATTTA TTAGAACATA
51 GCCTGAGCCA GAACCTTTA TGTCACAGG AAGAGATGC AAGTAGATT
101 ACTGACATCA AGAAGGACTG CCCAGTGGTG GAGCCAGCAT TTGAAACTGG
151 ACTATAGAGG ACCAACTACA ATTGTGACTG CATTGTGAC TGAATGTCAC
201 AAAAACTGCT GAGAGGCTTG TCATGTATAT GAGAGACAGG GAAAGAGTCA
251 TAGTCAAGAC TGGAAGCAG AGCAGGCAAG AAGTGTACCT TAGATTCTAT
301 CCCCCATCAGT TCTTCACAT CACATGTGTT TGGCCTCTGT ATAATACCCA
351 GCTGTATTGA CCAGGACTTC TCTGTCCTGC TTTGCTCTTG AATTTCTATA
401 GTGAGCCTAC CTTTGGTAA TGACTATTA TGAGATAGTG TTCTATTCTC
451 AGGTTACTAC TGTGGATTGA ACCAACATT ACAAACACCA GCTCAGCAAM
501 GAAAAATAAC CAATTACTTH GTCTCTGTTG AACATTGAAA ACACCTCCAC
551 TGAAAGAATG GAGTGATTAA AAAAAGATCC MACMGATGAC CMAAGTAACC
601 ACAGATAT

ug153rcon

1 GGAATTCTACA AGATCTACCA CTTACAGAGC AAAGTACCCA CCTTTGTWC
51 GAATGCWGCG CCCAGAAGGA CGACCCTGAA TATACACGAG AAAAMCTGGA
101 ATRACCTACC CTTACDGCGAG AACCGTTATT ACTAATGAGT ACATGAAAGA
151 AGATTTCTG ATTAAAATTG AACCTGGCA CAAGCCAGAC CTTNACACCC
201 AGGAGAATGT GCATAANGCA KMGGAGGCCT GASRGATGG AACATGTGG
251 AAGCTATATA TATAGACAAT TRCTGATC

82/472

ug154rcon

1 GAATTGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGA GAGATCTAGT
51 TGTCAATTGA ACAAGGTGTA TTTGAGCCTG GAGGCATGAG CAGGGCTGGT
101 TCCTGCCGAC CCTGTGAGGA CTGTGGGATG GGCGATGGGTG TTGTCTATAAC
151 TGTGGTGAG CACCAGTGCC CAGCGCCAGG CTGACTGACT AGCTGATACC
201 TCCTTGGTATTTCAGGGTA CTCTTGAGAA GTTCAGGCAG GTGAAAGTCT
251 GTGGCATCCT CCTCATTGGT CTTCTGCCCT CACCATCCCC CATGTAACCA
301 AAGAGACTCT GAGCVCCATTTCCTCCC TACTGAGAAT CCCTCTGGAC
351 TCCANNTCAC TCAGGGTAAA AGTCCATCCT TTCCATGACC ACTGGGTGGG
401 TCTTYACCAT CCACNCTCAT CACCTGTCTG AATTAGTTGA CGCTCCCTCT
451 GCWCCAGCCG CAATGGGCTC AGCCTTGCA CGTGGTAT

ug155rcon

1 GAATTCCAGC AGTTAAGAGC ACTGACTGTT CTTACAGAGA TCCTGAGTTC
51 AATTCCCAGC AACTGCATAG TGACTCACAA TCATCTGAA TAGGATCTGA
101 TACCCCTCTGC TGGTGTGTCT GAAGATAGTT ACAGTGTACC CATATGCATA
151 AAATGAATAA ATAAATCTTT TTAAAAATTTT TATTTGCTTA ATTTTATTTG
201 AATGTGTGTT TTACCCACTT GTATGTCTTT GTATCACCTG CCTGCCTGGT
251 GACTGAGGAG GCTAGAAGAG GGCTTCAGAT TCTCTGGGTC TAGAGCTACA
301 GCTGGTTGCT AGTGGCCATG TAGATGCTGG GAATCGAGCC TGGGTTCTCT
351 CTGAAAGAGC AACAGTGCCC TTAACCACGT AGCCACTAGA CATAAGCATT
401 CAGAGAGGAT TTGTTGTTGT TGGTGTGTTG CTTTGTGTT GTTTGATT
451 TGTATTYTGC CACAGTGGCT GCAAACATTG AATCTGAGTT GGAGGTAATC
501 CTTTATTTT ACAGAATMTC AST

83/472

ug156rcon

1 GGAATTCCCC CCGCCATGAC TTTCAAACCT GTTGAATACA CTGTAGTCCT
51 CCTTCCAATA GACTTTCATC ACTGCTTGGG TCTCCTCCTC TGTACTTGCA
101 ATGCCCATCT TTAAGTCCTG CATAGCAGCC AAAGTGTCAA GACAACCCAG
151 GATATGCAAG GCTGCGTGAG ATCGGGTGGT AAGAGCCCTT GATCCTGTTG
201 GCAGAGCAAG TTCAGGACTT AGAATACAC ATCTGGACTG CATGCTGTT
251 GCAGAGGGAA GTCTGGCATH AGCAACCACG GCATTGTAAC ACCAGAGCTC
301 TCTGGTGCTT GGTCGAAACC TCCAAAGCAC ATCATATACA GGATCAAGAC
351 ACACACCAAA TYCTTGCAGG TCTTCTTGT CAGAGTCATT GAAAGTTTA
401 CAACTCCAT CAACTTATT TATCAGAAGA CATTAAATG GTGGAGGTYC
451 TGATATGGAA GCAGGAMCCA RGGCCTATTA

ug157rcon

1 GGAATTGCA ACACCTCTTA GGGCAGGTGG CAATCCAACA ACAACAAGGT
51 CCCGGAGTAC AGAACCAAGGC TCTGGGTCTT AAGCCTCAGG GCCTTCTGCC
101 TCCCAGCAAC CACCAGGGCC TCCTGGTCCA GCAGTTGTCC CCCCAGCAGT
151 CCCAGGGATC CCAGGGCCTG CTTGGCCCTG CCCAGGTGAC AGTGTGAG
201 CAGCAGCAGC AGAACACAGCA GCACTCTGGA GCTCTGGGTC CTCAGGGCCC
251 TCACAGACAG GTGCTTATGA CTCAGTCCAG GGTGCTGAGC TCCCCTCAGC
301 NGGCACAGCA GGGTCACAGC CTTATGGGAC ACCGGCTACN CNCNNCCAG
351 CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAACAGCAAC AGCVGCAGCA
401 ACAACAGGCA ACAACAACAA CAGG

84/472

ug158

1 GGAATTCA GC TTACATAGGG AATTCTAGGG CAGTGAGGG A GTTTGTCTCA
51 AGAGGAAAAG GTTAAGTGT C TGAGGAATGA CCCTGGAGGT TGTCCCTTGA
101 CACCTGTGCA GGTGCACACA CACACACACA CACACACACA CACACACACA
151 CACAGGAGCC AGGTATGGTA GGTAGCACAA GCTTGTAGTC ACAGCTACAT
201 GGGCAGGTGA GACTGGATGA TTTAGAGTTT GAGGGCTAGCC TGGCCTACAT
251 GGTAAGTTCA AATCCAGCCT TGGTTATCTA GTTGAGTTGT TATCTCAAAA
301 CAAAACAAAC TTATCCACCT ATGTGAGACA ATGTGAGATT TTTTCTCTGC
351 TCAAAGACAA ATGTTTTCT CAAAGGTAGC AACAGGCTGA TAGGAACACT
401 CTTCCCAGAA GAGTDCACAC ATGAGCHGGT GCMCTGGVA TGCTCAGAAG
451 AGGCT

ug159

1 GGAATTCA TC AGAAGCTCAT TTTGTTATTCT TTTTTTTCT TTTTTTTTA
51 CAAATCAGTA AAGCTAAAG CCAGAGACTT ATAGATTGGT TCAAATATAA
101 TCAACAGTAA GATACAGACA ACAAGAGATA CAGCTAAAGC CACTAACAGC
151 AACAGATTCA AAGTAGGAAG ATGGGCAAAG GTCTTATCAG GAAAATGCTA
201 ATGAAAAGAA AGCTAGATCG CAATGGTAAC ATCAGATAAA GGGGAAAGCA
251 AGCCAAGCTA CATTAAATAG GGGTAAGGAT GGCTTCGGTT AGCCTTCAA
301 CRCGTCACTA TAAGTTGTT TCTCACTTWA CTGAWCTCAT CTAGCTCCTC
351 CACAATCTCT AAACAGATCA TCACTRCTCA AGARCMGTGTT GTGTATATAC
401 CTCCTGAAAAA

85/472

ug160

1 GGAATTCCAT GTTAAAGCA TATCAAATAA ATACTAGGCA AGGAGTTCC
51 TGGGAGAGTT AGAAATTAAA AAAATTACCA ATTCTCTGT CTCTGTGATA
101 ATTCAATGCC AGTAAGAGAA AGGTATTGAA GGGACAATTTCATACTAAA
151 AAAAGAATTTCCTAGTCAT GTCACCACCT CTTATAAAGA ATCCAGGGAA
201 TCCCAGAAAT AGAAAATTAG TTTCAGGGGG ACCCCTGAGG CACTTAAAG
251 CCTTTAAAAA ATTACAGTAA TAATAAATTAGCTATTGCTCTTCAGAGGCT
301 CACGGAACAG CTAACACAAAC AGGACCAGGT CCAGAGTTAG GTCCGTATCT
351 CAGGTTCTCG AGCTGCCCGG CCCTCTTAA AGCTTAGACG AATTCACAA
401 TACAAGACAT ACAATTAAAC ACAGACTGAG TGGGDCTTT TGTTAGTGG
451 GT

ug161

1 GGAATTCCAT TCTTCACAAA ACAATGTATT ATCACCTGAG AAATAATCCA
51 CATTAGTTA ACTTTTCAGG GAACTTCTGA ACTCATCATA CATACTCCAC
101 TACCCAATGT CGACACTCCA TTTCCACCTC AGCCAGTTAA GTGTAAAGTA
151 TGCAAAACCT CAATGAGTTG TTTCTAACTG ACAGACTGCA GAGATAAAAG
201 CAATGACGAC GCCCTTCAGA TCTTAGCAAA AACAACTGCT AAAGTGACTA
251 TCAAGGAAAA GAACCATTAGAAGCAGTT TTATGTACCA AGGTGGTTAA
301 AACTAAAATTGACAGGCAGTGGGGCA CGTGCYTTW ATACCCAGCA
351 CCTGGGAGGC AAAGGCMGGC AGGATTCTG TAGGTTC

ug162

1 GGAATTCAAGG GAGAGCGCAG ACAGGAAAAC TGCAGAAAGC CACAGGGAAA
51 GTACGGTACA GACTCAGATCTTTTATTCTT CAACTTACTT CTCGTTATT
101 TCCCCACACACCTCTGGCT CCTGCCTAAC TGGGTCGCGT TGGGGATGTT
151 TGGCATGGCG CTCTTAGCTT TTGTTCTTT TAATTCGCGC CGCCCCCTTH
201 CTCTCVGGCG GATTACTAGG TCCCGAACTC TGCCACTACA ACCTTAGGAG
251 CAGCAAGCTY CGCCAATGG CACCACCG

86/472

ug163rcon

1 GAATTCAATT TATTTTATT TTATTTATTA ATAGTAACAA AAATCAGAAG
51 TAACAAAAAA CCCAGTTAAA TGGAATACAG AAGCACAGCA AATACAAATG
101 CAATTCAAA ACCACTCGGC ACAGAAATCT GTTGAAACCA TTTCTGAAG
151 TTTAACTATT TAGGTCTAG GACTAACCAA GGCATTGGGA GTGCTCACAT
201 GGATTGGTT GCCGATGGAG GAGCCTGCTT CCCAAGACT GACAGTAGTA
251 CCCAAGAGTC CTGGTATATG TATGTGAAAA GACCTCCCTG GGTCTGGAT
301 CTTAAGAGAC ACTGATGTTA ATAAAACCAC CAGGACCACA TAAAACCACA
351 GAACAAAACC CCAGAGCAAG CCCAGAGAGC TTGCCGTCTT GTTCTATAGG
401 CTTCTAGAGG ACTCTAGGAA CTGAAGAAGA TGTAACTCTG CGTGTGGTC
451 CCATGCAAAT CTCAACCCAA GTCTCCCAA CCAGGCTACT TAGCAGCTT
501 TCATGAACGG TTCAAGGATC ACCTGAATCT ATGGGRGGGT CACCTGAATC
551 TATGGGAGGG TCACCTGATC TATTGGTSCH TCAGAGCAAC A

ug164rcon

1 GAATTGATT TATTGAAGCA GTAACAAGTT GGTAGATAT TTACTGGAAA
51 AAAGCAGTTT TAATGGTATT CAAAAAATCT TTAAAAAGTA TTCTAGCACA
101 AGATTCTTC GTAAACTAGA TTATTTGTA AACCTTTCT ACGTCTTTG
151 GGGTGTCACT TGTTAAGTGC TGAGCTCTT TCTATTCCAA ATCTATCTT
201 CGCTCCTGAA AAACGTCACT AAAGGCACCT GAAAGCTGTT TTCCTAAGAT
251 ACGATTTTTT TTCTCTCTT GCTGGTACTG CACTGTTGCA CCAAGTGTGT
301 GCAATTTTA TTCAAGGTCA TCGTGTGCT GAGAAGTCTC ATTGATCACC
351 TGTCCATCTC TGGTCTCAAC CGTCTTAATC AGGAGTGTGTT TTTTGAGTG
401 GGTGTCAACC AGAGGAAGTG ACTCCAGGTT AGTTTCTCTC AGGTTCAAGGG
451 AAGAAAAGGT TGGCAGAGGC AGAGAAATCC TGCTCTCMNC GCCTTCCAGC
501 AGCTTCCGT AAGGNGGCGA NCCTCAATGT CCAGGGCCAD CTTAACATTG
551 AGCCAGATCT TGGAATTAC GMAGGTGA

87/472

ug165rcon

1 GAATTCCGAC TTCACCATCC CTATCAAAAT ACTGTCAACT TCTAACCCACA
51 ATAGTGACTC TGTGCTTGTG TGTTTAGTTC TGTGTGTAAA TGAAATGTGG
101 AAATGACCCCT CCCTGCCCA GCTGGCTGCC CTCCCCTTC CTTTGATCTT
151 GACCACTCAT GGAAGCAGGA CCAGTAAGGG ACCTTCAATT TAAAACAAAAA
201 CAAAACAAAAA AAACAATAAA AAGGCTAATT ACAACAAAAA AAAAAAAA
251 AAAAAAAA AAAAAAAGGG CCGHGAATT CACCACACTG GCGGCCGCTC
301 GAGCATGCAT CTAGAGGGCC CAATTGCC TATAGTGAGT CGTATTACAA
351 TTCACTGGCC GTCGTTTAC AACGTCGTGA CTGGGAAAAC CCTGGCGTTA
401 CCCAACTTAA TCGCCTTGCA GCACATCCCC CTTHBGCCAG CTGGCGTAAT
451 AGCGAAGATG GCCCNACCG ATCTGCCCTT CCCAACAGTT GCCGTCATCG
501 CTGAATGGCG AATGGRCGCT SCCCTGTAGC

ug166rcon

1 GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCAGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTG
201 CGTGTGTC GACCGTCTAC GCCGACCTCG TTCAACAGGT CCAGGGCGGC
251 ACGGATCACT GTATTGGCT GCAACTTGT CATGCTTGAC ACTTTATCAC
301 TGATAAACAT AATATGTCCA CCAACTTATC AGTGATAAAG AATCCGCGCC
351 AGCACACTGG CGGCCGCTCG AGCATGCATC TAGAGGGCCC AATNCGCCCT
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTACA ACGTCGTGAC
451 TGGGAAAACC CTGGCGTTAC CCAACCTTAA KCGCCTTGCA GCACATCCCC
501 C

88/472

ug167rcon

1 GAATTCCAAT CTCAGAATAA AGGATGACCA CTGGACTCTC AGGATTGAT
51 GAGGGATATC TGTGATCTCC TTTGAACAAT AATGGTTCG GTCTGTCAGC
101 GGCAGTCAGC AGAAGGCTCT CCAGAGTGT TAGATCACAA GTCTGCTTC
151 CATGCACTGA GAGAAACGAC TTGCACCCTT CTGGTGGAGG CTCGTCAACT
201 GCTATCTGCT GGAAGGCTTG ATTGAGGCT GAGTAGGAAC GGAGAGAGAG
251 ACAAAAATTC AACAAATTCT GCTGCAGAGG GGACAGGAAG CGAACGCGAG
301 CTTCCAATAC GGCATCGTAA TAGGAGTGTAGT CAGTATCGT ATGATCTGAT
351 GATCCAATGT TTTGAGTGGC TTCTACAAAA CTCCAAAATT TCTCTTGACT
401 GTCTTCTGCT AAGAACTCAC TGGCTTCCAG CAGCAGTGGG GCAGAAAACC
451 ACTTTGTGGT GAGAGAGGTG STAATGGCTT TTGAATTGGC TTCTGCTAAG
501 GAAAACAGGC ACGGTAAGGC CAGTGCAATC WAGGAGATCT CRTGTATGTA
551 ACGGAGMCCT G

ug168rcon

1 GAATTGCCCT GGGAAATGTCC TGGGGAAGAA GAGCAGAGTG TTTCTGCC
51 TTGGCCCAGG CAGTGCAGAC AGGAAGAATG CATGGGGTAA GGGTAGGCCA
101 GTAACTCCAC TTGCAAAGGA TGAGCAGTC ACTGGCTAGG ATGCATGGGG
151 AGAGAGTTAC TGCTGCCAGC TTTCCTCTGG TACCCGCTAT AGACTGGCAT
201 CCAGAGATGG GTGCCTGGCT TGAGGCCTGA GACAGTGATG CCCTTCTGCT
251 GGTGGCCAAT GCTCCTGTTA AGCTGCTTAC TGCAAGGCTC CATCTCTGC
301 ATCTGTGTCC TGGCTGTGCT CCAGCTCCTC CTCGCTATGT GTTAGCAGTC
351 CCTCCTCATC ACCATCATCT CGAGTTTGGA CTTCTCCTTG GGGTGTGCCT
401 GCCTCAGAAG CCGTGTCTTC TTGGGGCGCT GGTAGCCGGCTGCTGCT
451 GCAGCTCCCG CTGCCGCCGC CGCTGCCACC ACCAACATTG CTACTGCC
501 CTCCACCACT GCTGCCTCCT CCTCCACACT GBGCTSCTCA CCCTTYT

89/472

ug169rcon

1 GGAATTCTTT TTTTTTATAT GTAAAACGAC AAAATATTTT AATTTCCAT
51 GACCACAGGC TCTCTTCAAG AAGGCTGTAC CTGTATGACC ACCAGGTGAC
101 AGCATGGATA ATGCTTCAGG ACAAGTCACA ATTTGTACT AACAAATCAGT
151 TCAACCACAG CTTGAAATGT AGTTTGTCCC AGCTGCAAAA GCCACAAGAC
201 ACCAACATCATG CGTCTTACCC CAGTACAGAC TTTATAAAA CACACATGTA
251 TGTAATTAGC ACAATAAACG CGCTTATTAT GCACTCTAAC ATAGAGCACA
301 GGAATACACG CTATGGAGTG CAGCCCTCAT GTCTCCACAG GCAAGAGCTA
351 GAGGGTTAAA CAGGAGCCCA TGGTGTGACA GCAGGAGCTC GGAGCGCACC
401 ACTCTGCACG TGACTTACCC TACACTGAGA ACTGTCACCC TGTCCAGTGG
451 GTGGCAGGTA CAGTCTCATA AACAGTGTAA TTTCTAGAG CAGAGATGTC
501 AGTCTGGATG TGAGTCGCTG TTACCTAGAA GGSATTACAA GTCAGCTCCA
551 TAGAAGGTGG GCGTTGGCT TTGGGGTCGA GTGTAACAGT GTCCCGCAGA
601 CACTTKCACA CCCGCACCCC TGTGCCAG GGGAGTGCAG TTCC

ug170rcon

1 TGGAAATTCCC AGTGTACCGG CACTGCTGCT TACAGGGCCC GCCACCTCGA
51 CAGCGGTCA TCAGGTACGG GTCTTCTTGG TCCTCCTCGT CAGGAATCTT
101 AGCTGGGTCC TGAAGGTCTG CACCGTTGCC TTGGACAAAG TCTGAATTCT
151 CCCGGGCCTT CACACAGCAG GCACGGAACA CCAGCCCACA CTGGTAGCTT
201 ATCATGACAA TGGGTTACA GGTCTGGTCT CGGGCCAGGG ATGCCTTCC
251 CAGCATGCAA CAGTGGCAGC ACCTCTTAT GAAGATGGTC TCAAGGCTAC
301 TGTGTTAGCT GTGGAGCGAG GCNCAGCTTT CTTGGCTCGC TKGGCCARGG
351 TTGATGCCCG TKGCACAGTG GCAGCTCTT CCAGTTGGT TGTGACAACA
401 TTTKCTCATK GGRCCATTCT GCACDCCYTT GGATTCTBGA GG

90/472

ug171rcon

1 GGAATTCCCG TCCAGCTCCC CGGGCGGTGT GGAGAAGCGC AAGCTCCGT
51 TCTCCGAGGA GTGCTCTGAT GAGGAGGCAA AAGGCGATTG TCTGGAGTCT
101 CCGAAAGTAA GGAAGGGATC TTTGAGCTGC CTGGAGGCCG CATAGCCAGC
151 GAGCCACTGC GAATACACGT TCTCCGTGTT AGGCATCGCG GCCGGGGGCA
201 GGTCAAACTC CTTCTCCAGC TTGATGCGCT TGGAGAAGGG GCTCAGCGAG
251 CTGGGGCTAC CCAGCAGCAG CTTTTGGAC AGACCCCCCG AAGCCGATTG
301 GCCGGGGGAG CAGCCACGAC CATTAAACAGT GCCATCGTCT ATGCGGTCTG
351 ACTCACCGGC CACCGAGTCT TYATCACAAG TGTTCCCYAW GGSCCTCSGG
401 CTCTGCCAG GTGGCTACSC TTATGCTTT NNCCCAGGAC CTTGTGGAAG
451 GCCTCTCTBA AGTGCTGCAT GGAGCTGAGC ACCATGCCCT GCATGA

ug172rcon

1 GGAATTCCCG TTCTCCTGTA TAGGAGGCAG CCATGGCGCC CAGCCGGAAT
51 GGCATGATACTGAAGCCCCA CTTCCACAAG GATTGGCAGC AGCGAGTGG
101 CACTTGGTTC AACCAAGCCGG CGCGCAAGAT CCGCAGGCCG AAGGCCCGC
151 TGGCGAAAGC GCGTCGCATC GCCCCTCGCC CCGCGTCCGG CCCCATCAGG
201 CCCATCGTGA GGTGCCCTAC AGTGAGATAC CACACCAAGG TCCGGGCTGG
251 CAGGGGCTTC AGCCTGGAGG AGCTCAGGGT GGCTGGCATC CACAAGAAAG
301 TGGCTCGCAC CATCGGCATC TCTGTGGACC CGAGGAGGCG AAACAAGTTC
351 ACGGAGTCAC TGCAGGCCAA CGTGCAGCGC CTWAGGAGT WYCKCTCCAA
401 GCTCATNCCT GTTCCCCAGG AAGCCYTYTT

91/472

ug173rcon

1 GAATTCTGCTT GTTCTGTCA TTTCTTCCT TGGTAAACTC TCTGGGGATT
51 GGTCTGTWCT CAGCTGTGAC TATAGTCACA TCCTGGTTCC CAGCAGAAAT
101 KGTGAAACAA CCTGCWG CCT AGCCCACAGT ACTACAGTTC TCTGTTTGT
151 TTCTGTTCT AGCCCGTCTC GATACTGACA ACTGGAGTTG AAGCTGCTTG
201 AAGTAAGTCT GATGCTTCA TATAAGTGAA TTTGTAGGAC TATTGCTTT
251 WRTTTTACA ACAGAAGTAA TTCTGACATA TTAAGTGGAA AATCTAAATA
301 AGTATATAGA TTATATAACA TGATTTAAT TACATKGGAT CCAACTACAT
351 ATGTGATTAG ATAATGTGTA TATGTACATA TG

ug174rcon

1 GAATTCGAAA TCCCTATGCT GDNMAGAGGA AAGCCAGCTA AGTTTNWRC
51 TGTGTTTWRT TCTAACCGTG ATGGTGYTC TGAGGCCAAA AAGTACAAGG
101 CAAGTTTWNC AATATTTCTC TGCAAAGAAG CAAAGAGAGA AATAAGACCM
151 SCCAGCAATT GAATT

ug175rcon

1 GAATTCCCTCC GATTCAATTAA TTAGGACATG ATCTCTGATG AATCTTTACT
51 TCCCAATTGC TAGGCTTACT AGCAGCAAGC ACACCTGCAC GAGSTCCAAC
101 ATGGGKTCTG GAGATCCTAC ACAGGCTAAC AATTTDCNNN VCTTCTAAAA
151 TGGAATTCTC ACACCAAACC ACTTACCTCT TCTTGTGTTT TCTGBACAAA
201 GTCAAGTCAA CATAGGACAG GGCCTCGCTCT

92/472

ug176rcon

1 GGAATTCAAG AGAAGGAAAG AGAGAGGGGG AGAGAAADAA AGAAAGAAAG
51 AAAGAAAGAA AGAAAGAAAG AAAGAAAGAA AAAGAGAGAG AGAGAGAGAG
101 AGAGAGAGAA ATAAAGAAAA RGCTAAAMMT DDMWRVWRCT TAARMTCTTA
151 TAGAACACACATCATTGTTGACTTATGCCMTCT BGCAATMTCA
201 AAGTCCAGTC CAACAAGAGTTCCMGCTCG GACACACATT TGGTCAGGAT
251 GATGGTGGTT ARTAWCTVNM TGTGNTCTGT CTAGRWCMAA ACTC

ug177rcon

1 GGAATTCCCTC CAGGGTAGTC TGGAGGTGGT GATACCATAG GAGAATCCAA
51 GTTTACAATG GATTCATAA CAATTCTAA AGCATTCTT CCATACTGTT
101 TAAAAAAAAA AAAAAAAA AAGATGTTT AACCAAGGCTC ACCATTGGG
151 TAATTTTTT GACCAATTAA ATGCTATAAA TTATAATTGT ACCAAATATT
201 CAGAAACTAT TATTATAAA TATTCAAGGAC ATTAATTACG ACCGCCTATT
251 TGTGCCTTT CAGACAGCAG ACATTCAATA TGTTAATACT TTTTTAATT
301 TTAATAACTC ATCTTGATGT TTTCCAAAA NTNCCAGGAG TATTTCCAA
351 AAGGAATAAA AAAAATGTAT GTATAGATCA TGATATGTCA AATCCTGTCT
401 CACATGAAAAA TACCAGAAGG CAAAGCTAAC AAGAGCAAGC AAGTAGAGTG
451 GTTAGNNHCA CATCACTAGA GACACAGAAA TGTACCTTGT TGTCAAAGTT
501 GAATCT

93/472

ug178rcon

1 GGAATTCCAG AGGAAGGGAG CTCAGAAGAT GGAACGAAGG CTGATGAGAA
51 GAGCTCTGAC CAAGGGGTGC AGAAGGTGGG AGATACTGAT GGCACTGGTA
101 ATCTTGATGG AAAGAAAGAA GATGAAGACC CTCAGGATGG AGGGTCCCTT
151 NCCTAACAC TGTCCAAGTT GAAAAGGATG AACCGGAAG AAGGAACAGG
201 GGCTACAGAG CCAGAATATT ACCACTACAT CCCCCCAGCA CACTGCAAGG
251 TCAAACCTAA TTTCCCCTTC TTACTCTTTA TGAGAGCCAG TGAACAGATG
301 GAAGGGGATC ATAGTGCACA CTCAAAGAGT GCCCCCGAGA ACAGAAAAAG
351 CAGCTCTCCC AAGCCGCAAG CTGTTAGTAA GACAGCAGCA AGCCAGGGG
401 CAGAAAGAAC AGTGAGTGAA GCTTCTGAGC TGCAAAAGGA AGCCGCTGTG
451 GCTGGNCCTT CAGAGCCTGG NGGCAAATGC ATGAAACMAA GA

ug179rcon

1 GGAATTCTAA TCATATGTCA GAGAAATAGT AACTTCACCA TAAGTGATAG
51 TGAAATGAGG AACTGTGAGC TATAAAGAAG TTATGTTAAT GTGTGAGATG
101 TCTTTCAAA AATAAAGTTG TACTATGGAC AAATACTATG TGAAACTTAT
151 TTATTGTAAT TTTTCTAGT ATTATAATT ATTATATAACA ACTTTATGT
201 GTTTTGCTT TTCACTTGAC AACTAGGCAA TAATCTGCA ACTTTCTTCC
251 AGGTCACTTA GATATGTTCA GTACATTACG TTCCTCTAGC TTGTACAGGC
301 AACATCCAAA AACTCTCGA AGCATTGTT CAGATCTCA GTATTTCCA
351 GGTACAAACA AGTGTATTAT TTATTTGRA AAACATAGTT ATATTTAGTA
401 AGACTTGTG TNMSCMGDDG GTGGTAATTG AAGTACCTTA TTCCYTGGTA
451 TATTAAGT

94/472

ug180rcon

1 GGAATTCACTT CAAACACTGA AAACCAAATT TTATAAACAA CCATCAAATC
51 TATGCAGTTT GCAGATTTTC CTCCCTCCT TGAAATAATT TCAGAAGCAT
101 ACACAGAGGG GTCCCTACAC TAAGAAGGCAC CCAGGGCCCC AGTTTATTCC
151 AGTTTATGGC CTTTCCTGT GTCCGAGGGC AGCCTTATCA GCAGGCATAG
201 ACTGGTCAAA CTAGCCCCGG AAAGMCTGCT TTATGAACCT CAATGACGAT
251 YCCATCCTCA AAAANGCCTA ATCAACYACC GTCTCCATTCTTTCCMACA
301 CTGACTAGTT AAACTTATT

ug181rcon

1 GGAATTCCAG GCTCGAGCGG CCGTATACTA TTATATWAAT CAAAACATT
51 ATCCTACTAA AAGTATTGGA GAAAGAAATT CGTACATCTA WGGAGCTATA
101 GAACTAGTTA CCGCAAGGGGA AAGATGAAAG ACTAATTWAA AGTAAGAAC
151 AGCAAAGATT AACCTTGTA CTTTGATA AWGRACTTAA CTHAGAAAAC
201 CTTCTTAACT AAARGAATTA C

ug182

1 GAATTHGGCA TAAATCAAAG GGGGTGAAAT TAAAGCAATC CTTTCTGTTA
51 TTTCTCACAA GTGGCAGATC TGTATTTGT TTATAGAAGA CTGTAGATCC
101 TTTAAATGA CAGACAGAAT TCTTAARRRA TTTAAGGCA TGGAGAGGTA
151 AATGACAGGT TTGTACATGG AGTAAATAAG GTATCAAAAG TAGAAATATT
201 AAATTATGGG AGTGGAGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGG
251 AGAGATCGAC AGAGAGAATA CAACGTTGG TTAGT

95/472

ug183rcon

1 GGAATTCTGTG ACCTCACTGC TTAGTTCTTG GAAAGCTTGG GACAGACAGG
51 GGCCTTGGCT AGACTGTCCC CAACACCCAC TCCCTGCCAT GCTCAGTGT
101 GGGCTTGGGT TTCACCACTG GGGCAGCAAG GCAGGCCAGC GGGGCCTCTC
151 TGGGCTCTGG AAACAAGCTC TGCCACATAG CTCTGGGCAC AGTCATCCC
201 CTGGGGCCTG AAGGAGGTCA CCGGGAGGTG ATCTTTTCC ACCTCTGATT
251 GAGCAAGACA AGGCCACTGG GGACAACCTGA ACAGCACAGC CAAACTTGA
301 AACAGAGAGA CAGGGCCAGG CAAAGTCCCC ACCCTGCCCT CACTCTTYCT
351 GCGTTCBABN CCAGTCTCCC TGGGGGAGTC AGTGACGGGA TCTGGGGAT
401 GTTCCTCTCC AGATCTGTTM ACTGGCCTT TAGAAATGCC TCCTGGGGAT
451 TGTGAATTAG TAGAGCAGTT TGT

ug184rcon

1 GGAATTCTATA AGAATGACCA AATAAAATTT TGGGAGCAAT AAATGTAGGA
51 GAAAAAATCTT TGGTGGGGGG TTTGGGAAAG CTTAACTTT TAAAGGATAAA
101 TGTCTTTTA AAAAGAACAT CTCTGGCTCT GACTGTTGAA AATACTTAAG
151 ATATACATAC CAGTTTATT TGCCTTAAAA TCAAACAGAG AAGCAATGCT
201 TTAACAGATA AAAACAGAAG GTCAAACCTAG GGCTAGAGCC TGTTAGGGAA
251 AGRAGAAAAG GCTAACCTAG KGGACTCAGT GGTGTTAAGT GAAGATAGCT
301 ACCACATGCA AGATGTWCAC GGGCAGAGAG TTTATCCTGA AA

ug185

1 GAATTGCGC GCTGTSTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC
51 GGCGGCCATG GCATCAGATG AAGGCAAGCT TTTKGTGGG

96/472

ug185rcon

1 GGAATTCTCT CCATTACTTA CTTGTCTCTT CTTAGTGAGT GGTAACCGWT
51 GAGTCTCTAA GAGSTCTGGG GTCATCTCAG GAGTGCTATG CTCAGCTTAT
101 GCATTATGGC ACCCGGCAGG GGTCACTTG GGCAATGGTCT GCTCCCCAGA
151 TCAGTGTGAG CACCAGACTG GTGATCATCT CAGGCTCCCT CCCTCTGGG
201 AGCCCCATAG CACCTGGTGG TTGTCTCARG GTCTCTGTC TTGGAHTCHM
251 TYCCACACAG CCTGTGGTCC TAGGCAGGAT TCC

ug186rcon

1 GGAATTGGG AATCCTTACC ATCACACAAA ACTTACATCA GTGCTGTGAA
51 ATGTAACAGA AAATCTGGGG ATGCCTGACT TTKGTTATTT CCCTGGTATT
101 TTATTAAGCT TGAGTATGGT TAATATTTAT GCTGGCGTT CATTAATCTC
151 AAAAGATTAG CACCTATATT CCATGGATTCTCTCGHGCTT TAGTCCAAT
201 ATTTTAACC NGGGCATGGC AGTACACCAC CTTAAHCCC AGCACCTGAG
251 GGAGGCAGA

ug187rcon.

1 GGAATCCC GACTGAGGAA GACCCGGAAA CTCCGGGCC ACGTGAGCCA
51 CGGCCACNGC CGCATCGGTAGC ACCACCGCAA GCACCCAGGC NGCCGCGGGGA
101 ATGCTGGAGG CATGCACCAC CACAGGATCA ACTTGACAA ATATCACCC
151 GGTTACTTTG GGAAAGTTGG TATGCNGCAT TACCACTTGA AGAGGAACCA
201 GAGCTCTGC CCAACAGTCA ACCTGGATAA ACTGTGGACA TTGGTCAGCG
251 AGCAGACACG GGTCAATGCG GCAAAAAACA AGACTGGNGT NNMTCCCAC
301 ATTGATGTTG TTCGATCAGG CTACTACAAA GTTCTGGCA AGGRRAAWVT
351 CCCTAAAGCA ACCTGTACATC GTGAAGCCAA ATTCTTCAGC

97/472

ug188rcon

1 GGAATTCTGGAA GAACTTCACT TCAATCAGCT TCCGAGGGTT TAGGGATCGA
51 TGCCAGTACC TGCAGGTGCC CACAGGCTTT GGCAACACCA CTCCGGCAGT
101 GTAAACAGCT TGGAAAATGC CCTCCAGGTG GACCCGCCGG GTGATCTCTC
151 GGATCAAAAC TGGAGCCACC CTCTTAGAGC GCAGCTTCTT GTGGACACAC
201 AGGAAGTTGA TCTCCACCAT CTTCTTCTCT GTGTCATAGA TGTGGATGTT
251 TGCTGGGATG GCACTGATGA ACCCAACCAG TTTCCGACTT GAGACCACTC
301 GGACCCCACA GTGCCACTGT GGGAGCCAAC CTGGTKGCCB GAGAGCCCAC
351 AAGAGARACT TCTDGGGRAA TAGTCGAATC GGAACATATK GTCATCATCT
401 TCCACGGTAG TTTCT

ug189rcon

1 GGAATTCTTT TCTATTAACG ATTTCAATCT TCATGAAGAC AAAGGGACAA
51 TAAGAGATGT CATGACCCCA ACACCTAGGG TAAGCAATT TTGTKGCATT
101 TGTTATTAGC TGTTCTTGAA TTAGCTTATT CAAATTTCT TACAGGAGCC
151 AAAAAGGAGG GAGAGACACC CAATTGAWT ATTTAAAAT TTAAACAAAG
201 AAGTAAACAA ACCYGTAAA AKGTTCACACAGTT TGGGGAGGGA
251 GAACAAATCA TTTCTGVCC TTC

ug190rcon

1 GGAATCCCC GGCTCGAGCN NGCCGCTTT TTTTTTTTT TTAAAGCAAA
51 ATCTTGAAT ATTCTTCCCA TATCATATAT TTTATTAGAC AATATTATGA
101 TTTTGTCTG GTCTTAATA CCCAAAGGGA TGGCTGTCCA CTAACCTAAA
151 ACCACCAGKT CCTTCACTAC CTACAACAGT TTAGRATCAG KTTAAAACC
201 CCTTTCTCAT CAAGRGGCAG GACAATTAA

98/472

ug191rcon

1 GGAATTCTTT TTTTTTTTTT TTTTAAATTAGACAAACCAAGTCATTGGA
51 AGTGTATGTA AAATAGAAGG TAACCTTCCT GCAGGAGAAC CAAGGGGCTC
101 TCCTGTGAGG TAGTGCCACG TTATGAAAAC TATGAAAAC GAAAAGTATC
151 CTCCCCTTTG CAAAGGTTCT AAGCTGTGTT ACAGATACTT ACAAGAGGTT
201 TAAGATGTGA GTGAACGTGT CCCTATTGTG TTCTCATTAA TAGCCTTT
251 TATGAACTGG TGATGTTTG AAGTATGAGT TTATGAAGTC TCTTGTGAA
301 CCTGGACTTT TATTCTAAA GTTGAACYK GTGTGACACT AGAGKTTACC
351 TGAATACAA

ug192rcon

1 GGAATTCCCC GAATTGTAAA TAACTTCATA TTGGGATCTG CATTAGGTGG
51 AGGGCTTCTC TGCAAGTTCTA TTCTTGCACC AGACTGTTGG CTTATGCTTT
101 TTATGGTTTC ACCTCCTTT TYCAATGATC AGTCCAGTTT TCCCAGTTGG
151 CACAATGAAA TTAAACTCCT GGNGTCCACC CGGGGGCCCC ATATTCCAGT
201 TTCCTTGACC TCTACCTCGT CCTCGACCAC CAGGTCCCGG TCCACCAGGA
251 TTGCCAGCCT GAACACTTCG TAGAAGGTCT GTGATTATTT CTGCAGCGTG
301 CTGACACCTG TYTGGAGGTC CTGTTTATCT GTGCCATWCC TAWTCAGGTG
351 TTGTTCCATC AT

ug193

1 GCGGTTAGGC GAGCAGCGCC TGCCTGAAGC TGCAGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CMGCSCCCGC TTGTTCTGA
151 AGTGCCAGTA AAGCSCCGGC BGCTGAACCC CCAACCGTTC VCCAGTTGC
201 STGTSgtcAG ACCGTCT

99/472

ug194

1 GAATCCGCGG GGACCAGCCC GGCAGAATGG CTCCCGCAAA GAAGGGTGGC
51 GAGAAGAAGA AGGGCCGTCT GCCATCAACG AGGTGGTGAC CCGAGAATAC
101 ACCATCAACA TTCACAAGCG CATCCATGGA GTGGGCTTCA AGAACGCGTGC
151 TCCTCGGGCA CTCAAAGAAA TTCGGAAGTT TGCCATGAAG GAAATGGGGA
201 CACCAGATGT RCGCATTGAC ACCAGGCTCA ATAAAGCCGT CTGGGCCAAG
251 GGAATAAGGA ACGTTCCATA TCGCATCCGA GTACVCTTGT CCAGAAAACY
301 GTAATGAGGA TGAGGATCCC CAAAC

ug195

1 GGAATTGGC CCTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTTCCATT TTAGTGGACA TCTTTATTGT TTAATAGATC
101 ATCAATTCT GCAGACTTAC AGCTGGGATT TCATCAGATT GCCATGCTGA
151 GTCAAGAACCA GTGAGTGACG AAGCTAACCA GAGGCTACAT ACGTCAGAGA
201 GAGAGCTCAG CCTTTACAGC TCACTTCCCTT TCTCAGGCAG AATATAAATA
251 GACGCCCTCT ACAATGCACA ATGGTTTAG TCACTAAGGA ATTAAATGG
301 GATCTTGAAG AACACAGACA AATCCTGATG CAGTAAAGAC GAGCTGAGAT
351 GCTGTGCAAC TGTTAAGGG TTCTGGTGC CACATCTCAG CCACTAGCTG
401 AATCTTGCAG TAACACCAAA TGGAGAWGTG GAAAACACTA GGTTGACTTA
451 GGAGCACAGG AACCAAAGGC GGGAAAGAAA ATACTAAACA TTGCTGAGAG
501 CATCCACCCCC AGGAAGGACT T

100/472

ug196

1 GAATTCGCTA TGAGAAGGTG GCGAGACTGC AGAAGGTGGA GACAGAAATC
51 CAACGGGTCT CAGAGGCTTA TGAGAACATTG GTGAAGTCAT CTTCCAAAAG
101 AGAGGGCTCTG GAGAAAGCCA TGAGGAACAA GCTGGAGGGC GAGATTAGAA
151 GGATGCATGA CTTCAACAGA GATCTGAGAG ACCGTCTAGA GACTGCCAAC
201 AAGCAGCTGG CAGAGAAGGA GTRCGAGGRR TCCGAGGACA CCAGGAAGAC
251 CATCTSGSAG CTCTTGCCA AACATAAAGA AARCCAGCGG GAGAAGGAGA
301 A

ug197

1 GAATTCAAAC ACCACTACAA AAGACACTCT ATCAAAATCA GAGTAAGAAA
51 AATATGAAAAA CTTCTTGCT TTCTGATTAT CTTACGTGGA ACCGGAAGGA
101 AAAGCTAGTG AGAGGATATC AAGTCACTTC TAACAACCAC AGAGTTATAA
151 ACCTATCTGG TGTTGAAAAT CAACATGAAA ACGAACCAAGT CACTTTGACT
201 AAATATAAGG CTGTTGTTA CATGCCTAA GGAACCACTG CCATGTTCAA
251 CATGTGGCAA AAAGACAGGG CATGTTGGA ATTCACTTT AAAACATCCT
301 GTCTGAATGT ACCTTACTCC GAACTAAGTC ACATTTCTA GAGGTCCCAT
351 GAGAAGAAAG TWAAGGATAT CGGTACATTA CTCTAACAAA AACTTCAGTT
401 AAGCATTACC GTGGCTGTT ACTGCTAATA ACTAGAGRGG CATGTTAACG
451 TAGGGAAGCT AAGGTAGCA CGACGTCTGT AAA

101/472

ug198

1 GAATTCAAGG TTTGGATAC CAAAAACTAC AAGCAGACTT CCGTGTAGAT
51 ATGTTGATGA AGATCCTGAC TCTCTAGGAT TGTACTTTGT GCTTCAACTA
101 TTCAAGGCAT AGCATGAATG GACGTCCATC TTACAAAATA ACCTGTGTGA
151 AGATGAATGA TTCGGCCTGA AGCAGGGAAG TTGATCAGTA TTGATTTGTC
201 TGCTCTACA AAGTTCTGAA CAGCAATGAT ACGCCCAGTT TTCTGCCCTA
251 AGTGGTTGTT TTCCCTTGTA GCATTGTACT GAACTAGATT AAGAGGACAA
301 AATTAATGAA TAAGGTGTT CHTGAACCTC TGTACGCCT GTCTACTCAA
351 CATTATCCAT ATGATTCTTA CCTGATCCAT GCATTATTATTT ATAGTTACTA
401 ACAAAATGTGA AAWTACTGAT CCTTGCTCT GAACTTGACA TCCAGAHCYC
451 AGATTTCTCA TTTATTCAC

ug199

1 GCTGGCGCGG ATTCTTAHT CACTGATAAG TTGGCTGGAC AATATTATGT
51 TTATCAGTGA TAAAGTGTCA AGCATGACAA AGTTGCAGCC GAATACAGTG
101 ATCCGTGCCG CCCTGGACCT GTTGAACGAG GTCGGCGTAG ACGGTCTGAC
151 GACACGCAAA CTGGCGGAAC GGTTGGGGGG TTCAGCAGCC GGCCGCCTT

102/472

ug200

1 GGAATTGGC AAACGCTCAA CTACTGAGCT ACAGTCTGAG CTCAGTATAA
51 TTTTAAGGA TTTTACCAAT GCTTAAATGC TGTTGCTTGA TGTTACTACT
101 TATCCTGGTA TAGATGGTGA AAATTTCAAG ATATGTGGAT TTTTATCATT
151 AACATGGAAA AAGAAAATTA GTTTAAAAAA GTTATGGATG TGTCTGTGTA
201 GCAGGTGCAT GCATTGCCCTA TGGAGTHCAG ATGTGGGTAT CAAAGTCTCT
251 GTAAGTGGAG TTACAGATTG TTGTGAAC TG TCATGAGAAT ACTTGGAACT
301 GACACTGGGC CCTGGGAAGA GCAAGCAGTA CTCTTCACTG CTGAGCCATT
351 TCTCCAGACA GCAACATCCT AAACMGGTAT TCTGGAATCC CACACCCCTA
401 GTCATATTT CAGTTAGGCT AAAAGATTCA CTCATACTT CTCCTTTAT
451 ACAGGAATCT GTGTATCTCT GTACAGA

ug201

1 GGAATTCATC CTTCAAATT ATAATCATT TGATAGAGGT ATTTAATAT
51 ACATGCTTTT AAAAACAAAA CAAAAAAACTA CTGTCAGTAT GAATACTGAG
101 CCAGACTGGC ATATATAGAT TTAACATCTT GTCCTACTAA GATTCTAAC
151 TGTATAAAAA TAATATGGCT TTTAGACATA TAGGATACTA ATTTCAATGA
201 GACCCTTATC TCTTATTGA ACATTATGTT AGGGACAGTA AAAGCCATGC
251 ACTTACCTGC TACCCATTGG AAAATAAAC GACTGTCCCC AACCTAAGTA
301 AGTATGAAAA TTAGGCTAGC CTTATTCAT CTTAACTAC TAAAAGTAAG
351 TCTATAGAAC TTAAAATTAA AGCACTATTAA GTTGTATGG CTATATTTA
401 TTTTCCAAAA ATTAAGTTAA AAGTCATTAA TGTCATTGAT TATATACATG
451 TATGTTTTTC TAATAATTAA AATACCTTTC AAATCCATGG AATGTCTGGC
501 TTTTAAATGT AATTGACCT TTYCGCCYTG ATTT

103/472

ug202

1 GGAATTCTTC TGGTCATGGG CAACATTATC AACTGGTCGC TGGCTGCATA
51 CGGACTCATC ATGCGCCCCA ATGACTTTGC TTCCTACTTG CTGGCAATTG
101 GCATCTGCAA CCTGCTGCTT TATTCGCCT TCTACATCAT CATGAAGCTC
151 CGGAGCGCGA GAGGATCAAG CTCATCCCTC TGCTCTGCAT CGTCTGCACC
201 TCCGTGGTCT GGGGCTTCGC GCTCTTCTTC TTCTTCCAGG GACTGAGCAC
251 GTGGCAGAAA ACCCCCGCAG AGTCCAGGGA GCACAACCGC GACTGCATTY
301 CTYCTCGACT TCTTGATGA CCACGATATCTGGCACTTCC TGTCTCCAT
351 TGCCATGTTT GGGT

ug203

1 GGAATTCCAC ACATGCACTT ACTCATGCAT GCATGCACAA ACACATTACT
51 ACTGATAACAG ATGTCAGTAT TCCCAGAAAG AGAGTTCAAA AGATATTATG
101 ACTGTATTCC ACGTATTCAA AAATATCAGT TGAATAAGAC TAAAATTAAG
151 CTTATAGCAA AAAACTACAC ATAGTGTAAAC AGGAAGAATA CAAGAAGTTG
201 ACAGCAGGCT ATACTATGTC ACAGGTTGGT GACCATGGAG ACAGTGACTG
251 CTCAGCAGTA GGAAGTGTGC TGAGTGAATC ACTGAGACAA ACTTCTTTT
301 AATGGGCAGA ACATCCGTGA ACTTCCTTA ACCAAATAAT ATATAGTTGG
351 AAAAGTCAAA GAAAAAAGAA TACCTAGAAA AGTAATATCT GAAAAATTTC
401 CAAATTTGT ACAAAACCATG AATCCATATA TTCAAGCACA AGAATCAAAG
451 AAAGAATTAC ATTTAAGATT CTAAAAGATG ATTAGAAAGA GAAAATTATA
501 AATAGTTATG TGTTATTTAA AAAAAAAAAT CTATGACGAC TAAGGCTGGT
551 GGTATATACC TTCACTCCTT GAACTCAGGA AGCCBAGGCA GGTARGGTGT

104/472

ug204

1 GGC CGGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTATCA
51 GTGATAAAAGT GTCAAGCATG ACAAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCGCCCTGGA CCTGTTAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGV GGTTCAGCAG CCGGCCTTA CTGGCCTTCA
201 GGAACAAGCG GCCTGCTCGA CGCACTGGCC GAAGCCATGC TGCGGAGAA
251 TCATACGCAT TCVGTGCCGA GAGCCGACGA CGACTDGCGC TCATTCTGA
301 WCGGGAATCC CGCACYYTCA GGCAG

ug205

1 GGAATTCGTA AGAACAAAGCA AAGATTAAAC CTTGTACCTT TTGCATAATG
51 AACTAACTAG AAAACTTCTA ACTAAAAGAA TTACAGCTAG AAAMCCCGAA
101 RMCAAACDAG CTACCTAAAA ACAATTTAT GAATCAACTC GTCTATGTGG
151 CAAAATAGTG AGAAGATTT TAGGTAGAGG TGAAAARCCT AACAGCTTGG
201 TGATAGCTGG TTACCCAACM TGAATTAAAR TTCAATT

ug206

1 GGAATTCGTC TTGTCTGGAC AAAAATGGTT GGTTAAAAG GCCAAAGAAA
51 GTGCTGGTAG AAATGAGAGT ACTAATTAGC CTCCAAAAG AGACTGTTCT
101 CATTGTCTTT GTACCTCAGC CATAGCCTGG TGCAGTGGC ACATGGTCAG
151 TGTCTCAGAA AATGTTGTT GAATGAATGT TGTTGTTG TTTGTTGTT
201 TGTTGAATT CTGGAAATTA TTTGTTGAAC ACAAAGACAC CCAGCACCTA
251 CTGGGTGCTC ACTGTTGTGA GAGACTAGGG CTGGHHVCTG GGCAGTAGGG
301 ACAGCCTCAT TGGCTAATTA AGGATTTTG TGCAATTCCV GGCGATTAC
351 AAGGCACCTT CTTGTGAGTT ATGTAGT

105/472

ug207

1 GGAATTCCCC TAATCTCCAT TAACGAAAAT GACCCAGACC TCATAAACCC
51 AATCAAACBC CTAGCATTG GAAGCATCTT TGCAAGGATT GTCACTCTCAT
101 ATAATATTCC ACCAACCCAGC ATTCCAGTCC TCACAATACC ATGATTTTA
151 AAAACCACAG CCCTAATTAT TTCAGTATTAA GGATTCTAA TCGCACTAGA
201 ACTAAACAAAC CTAACCATAA AACTATCAAT AAATAAAGCA AATCCATATT
251 CATCCTTCTC AACTTTACTG GGGTTTTCC CATCTATTAT TCACCGCATT
301 ACACCCATAA AATCTCTCAA CCTAAGCCTA AAAACATCCC TAACTCTCCT
351 AGACTTGATC TGGTTAGAAA AAACCATCCC AAAATCACCT CAWCTCYTTC
401 ACACAAACAT WAACCACCTT AACAAACCAAC CAAAAAGGCT TAATTAAATT
451 GT

ug208

1 GGAATTGAA AAAACAAAAA AATTCTGCAT GCTCAGATGC ACAGACTAAG
51 ACTGGGTAAAC ATAAGCCATG CAATTGCCAA CGTGCTACCA TAATATATAG
101 TATAGTGAGT ATTGTATCA CATGACAGTA TTCAGTGCAA TAGTTATGTA
151 AGATTTACTG AATTGTAAG AATTGGAATG CATAGGAT ATATTTGATC
201 AGTTTCTTA CATTAGCAT ATTATATTA CCCATCTTAT TTGTGTTATC
251 TCTAATGTTT CATTATGGCT CGAGCCTTAT AAATTAATGT CACTCACAAA
301 TTCTTATTAG GGAAAATAGC CGTATGCTAC CTGCTAATAC TTACCAAATT
351 AGTATCTTAC TTCAAAAGAT GTTTGCTAA AATTTAATA AGGAAATAGC
401 ATGCTATATT TTCTAATTT AATTATATGT GAACAAGTCA ACATAATTAA
451 TATGARTTTA AATCTCCAGA TACTTCAGAA ATTGGTGCTT GTACACGTC

106/472

ug209

1 GGAATTCA GC AGAGCACACT CCCAAGTGCA CAGATTAAC ACAGTAGCGA
51 CTATTCGAT TTACAGGACT TTTCAACAAT CTGAAAAAAG ATCAACTGTT
101 GAAGATCTGT AGGTATGTTA CAAAAACCAC TGGAGTTCTT GTACAACAGT
151 ATGC GTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA
201 ACCGATCCAC TCCC GCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT
251 GTCTTATA CA AAAGTTAAGG CAAAGTCATT TTCAAGTTA AATAAAATTC
301 AAGTCTTAA ATATTGGAT GGAAATAATT TTTTYCCTT AGAAAAAAA
351 AAAGRRAAAA GAAACCAAAA CAACCTTCAG TCTCATTA AA WAGCATT

ug210

1 GGAATT CGTT TTATCTTAAA ATCATATGTT TAAGGCAGTA AGACACTAAA
51 CCAAAACAAA AAACAAAAAA CAGGGACATT TTAACAACCTC AACTCCCATT
101 GTTCTCTGTG GCATTATTTC AGCAAGCACA TGAAATAGC AAAMGAGAAT
151 CTACAATAGC TGTCCCAAAT GCAATTACAC ATG

ug210

1 GAATT CGTT TATCTTAAA TCATATGTTT AAGGCAGTAA GACACTAAC
51 CAAACACAAA AACAAAAAAC ARRRACATT TAACAACCTCA ACTCCCATTG
101 TTCTCTGTGG CATTATTCC AGCRAGCACA GGAAATAGCA AAGAGAATCT
151 ACAATGCTGT CCCAAAGCAA TTACACRTGG AAAGWTTACC AATGCAGGGC
201 TGGGSTTGA AAGCCAAAGT GTTAGTGMAG AWACAGAGCT TGACACCTAG
251 CAAGRAGARA CGAGTTGGA GCSTTGGTGC TCAAGTMTTG AAAGATTGAA
301 MTMTTGAAG TMGTTCTTA GTCATCAAAG GTCACTATGM AATAGTTGCR
351 ACTTTAGGTG TAAATCTGTG TGGGGAGTTT TTATAGCCTT TGGCAG

107/472

ug211

1 GGAATTCCCC CCTTTTACCA GTGGATGGAC ACAGAGAACT TCGTGTGCG
51 TGATGACGAT CGCCGTGGCA TCCAGCAACT TTATGGAAGC AAGTCAGGGT
101 CACCCACAAA GATGCCCT CAACCCAGAA CTACCTCTCG GCCCTCTGTC
151 CCAGATAAGC CCAAAAACCC CGCCTATGGG CCCAACATCT GTGACGGGAA
201 CTTTGACACC GTGGCCATGC TCCGAGGAGA GATGTTGTC TTCAAGGAGC
251 GATGGTTCTG GC GG GTGAGG AATAACCAAG TGATGGATGG ATACCCAATG
301 CCCATTGGCC AATTCTGGAG GGGCCTCCTG CATCCATCAA TACTGCTAC
351 GAAAGGAAGV MHCAAATTG TCTTCTTCAA AGGAGATAAS ACTGGGTGTT
401 TGACGAA

ug212

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTT TTTTTTTTT TTTTTTTAA
51 TCATTAAGGT AATT TATT A ATAGATAT CTGCAGATCA AGTGAATGGT
101 ACTAATGAAT AGTTTGGTG ACCTCACCCCT CTCATGTATA AACTGAAGA
151 TTCTTCCACT CCATGTTCAC TCCAGACTCT CAGTTTAAA GCAAGCATCA
201 CAGAATACCA GGCTTTACA GTGATGGGA GCYAGAGCTC TTACACAAAG
251 CCATACTCCA CMHGCTGACA GTTTCTTAG TAATACATAT AGTACTATCA
301 GATAACTCAT TCCAACAACA AAAAATTAAH CATTATGTCA ACCAATTGCB
351 CCAT

108/472

ug213

1 GGAATTCA GC AGAGCACACT CCCAAGTGCA CAGATTTAAC ACAGTAGCGA
51 CTATTTGCAT TTACAGGACT TTTCAACAAT CTGAAAAAAAG ATCAACTGTT
101 GAAGATCTGT AGGTATGTTA CAAAAACAC TGAGTTCTT GTACAAACAGT
151 ATGCGTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA
201 ACCGATCCAC TCCCGCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT
251 GTCTTATAACA AAAGTTAAGG CAAAGTCATT TTCAAGTTA AATAAAATTC
301 AAGTCTTAA ATATTGGATG GAAATAATT TTTTCCTTAG AAAAAAAAAA
351 AGAAAAAAAGA AACCAAAACA ACCTTCAGTC TCATTAAATA GCATTTGTG
401 GAATAAGCTG TATGGTTACA TATAGCAGGA AATAGTTAA TGTCTGCTGC
451 TTAGAATACT TAAAGAAAAA TCTTAGGCCT TTTAAAACAA AATAATTAT
501 CTGTAACTT ATTATGAAC TTGCTAACTTG ACTGCACTCT CGCTCCTCAG
551 AAGTGCCGCT TCTGACAATC TAGGA

ug214

1 GGAATTCCCG GCTCGAGCGC CGCTTTTTT TTTTTTTTA AATGCCATAG
51 CAGTAGTAGT TGGGTCTGGT GGTGGCACAC ACTTTAATT CCAGCGCTTG
101 AAAGGCAGAG ACAGGAGGAT CTCTTGAGTT TAAGGCTAGT CTGGTCTATA
151 GGCTGCAAG GACTTGAGGG GAAATAAAAG GTCACTACAA GCCATTTCTT
201 ATTTAACCA ATAGCATTAA ATTGTGCCTA TAGTGATTCT TAGTTGAGAC
251 ATTGTTCAGA ATGACTTCAT TCTGTATGCT TTTGCCTATG TCTGTGTTGT
301 ATGCATTAAA TATTTGAGT GACAATCTT TAGTAATTAT ATTTTTCCA
351 CAGAATAATA AAATATAGGA ATCTTAAGCA GTGTATGTAACAAATTTTC
401 CTTGACGTAG ACAGCACATA CTTTAAAAT ACAACTTAGG CAAGCAAACA
451 CTTTTGTACT TAATAATTAA ATGAATAGAA GTTAGTTTG TTTTTAGTCT
501 TAAGGGTGAA AAGGTAACCTC AGGCTTTAAA GCAAGACMGC ACCAAGTGCG
551 AGCTGTGATG TSAGCAGT GTAACCTTC CCCACCCCC

109/472

ug215

1 GGC CGGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAAGT GTCAAGCATG ACAAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCCCCTGGAC CTGTTAACG AGGTGGCGT AGACGGTCTG ACGACACGCA
151 AACTGGCGGA ACGGTTGGGG GTTCAGCAGC CGGCGCTTA CTGGCCTCA
201 GGAAC

ug216

1 GGAATTGTC GAGCGGCGCT TTTTTTTTTT TTTTTTTTTT TTTTAACATA
51 AGCAGGCATG GTGGCTCAGG CCTGTAATCC CAGAATGTGG GGCTGCAATA
101 GCATGTCACT GTGACTTTVV VCCCATTCA AAAATCCACT TAAACCATCC
151 CCAAAACGAG TGTGAGAGAG GATTACAGAT AACTAAGTAA AAAATGTCAG
201 TGGTCACCGT TATCTATTCC TGGGTAGAA GCGGCATGTC CATGAAGGC

ug217

1 GGAATTCAA CGGTTGAAAA CTTCTGGATT AGAGATTTAG AGCTGTGCTT
51 CTGGCAACTG TGTTCTTCCA TGGTGGACTT CCAGCTAAC AGCACTGATT
101 CTTGTCCCTG TCATGTCAGA TACTGCAGGG TACTCACTCA CCACAGTAAA
151 GTCATGCTTT CAAAACCACT CACAGCTACT CAAAGGCAAC GGCAAACAAG
201 CCCCAAACAT CTCATGGCTA TATTAACCTG GAATTCTGTC ACGTCAGGAG
251 CATTCTTATA GACAAAACAA TGAAAACCTT AGGATTTAAC AACACAGTAC
301 TGGTGTACG CCCAGAATCT TACCCATCAT CCCAGAAGAG ACCAGCACCA
351 AGGGTCAGAG GATGGAATT KCCATACAAG ATGAGGGAC

110/472

ug218

1 GGAATTCCCG ATGCTGCTTG GAAGCCTTGG CTGAAACVCT ACCACAGCCA
51 GACCTACGGC AACGGGTCCA AATGTGATCT CAACGGGAAG CCCCAGAGAAG
101 CTGAAGTTCG GTTCCTGTGT GACGAGGGTG CVGGCATATC TGGGGACTAC
151 ATTGACCGAG TAGATGAACC CGTCTCCTGC CCTACGTACT GACCATTSC
201 ACGTCAAGVC TCTGCCGCAT CCTCTCCT

ug219

1 GGAATTCCGGC GCACACCTT AATCTTAGCA CTTGGTAGGC AGAGGCAGGT
51 AGATTCTAA GTTGATGCC AGCCTGATCT ACAGAGTGAG TTCCAGGACA
101 GCCAGGGCTA CACAGAGAAA CCCTGTCTCA AAAAAACAAA ACAAAAAACA
151 AAACAAAAAA AAGTATGGGC AAAAGAGAAG AAAAATATCC CGGAAAGAAC
201 AATATAAAGA ATGATGTTCC CTTGACTGA GGGGCTTTGC ATATTACAGG
251 GATACCGGCC TGAGACAGCT GCCTCAAGAC AGGGACAGCG AGCCTCCTCA
301 GAGTCCACTT GTTCCAAGTC CCAGAGTCAC CCCCTATVYC TCGATATTGT
351 ACCTTAACA CMKGTTGTTA AATGGCCAGG CATWTGACAA ACCAGGGAAA
401 TAAGTCTATA ATGAGGAAGA AATTGTTCC

ug220

1 GGAATTCCCT ATAATTAATT AGAGGTAAAA TTACACATGC AAACCTCCAT
51 AGACCGGTGT AAAATCCCTT AAACATTAC TTAAAATTAA AGGAGAGGGT
101 ATCAAGCACA TTAAAATAGC TTAAGACACC TTGCCTAGCC ACACCCCCAC
151 GGGACTCAGC AGTGATAAAAT ATTAAGCAAT AAACGAAAGT TTGACTAAGT
201 TATACCTCTT AGGGTTGGTA AATTCTGTGC CAGCCACCGC GGTACATACGA
251 TTAACCCAAA CTAATTATCT TCGCGTAAA ACGTGTCAAC TATAAATAAAA
301 TAAATAGAAT TAAAATCAA CTTATATGTG AAAATTCAATT GTTAGGACCT
351 AAACBCAATA ACGAAAGTAA TTCTAGTCAT TTATAATACC CGACAGCTAA
401 GACCCAAACT GGGATTAGAT ACCCCACTAT GCTTAGCCAT AAACCTAAAT
451 AATTAAATT AGCRAAAACT ATTTGCCMGA GAACTACTAG CCA

111/472

ug221

1 GGAATTCTGGAA CCAACACGCA GGATTACATC TTCTTCAGTT CCTAGAGTCC
51 TCTAGAAGCC TATAGAACAA GACGGCAAGC TCTCTGGGCT TGCTCTGGGG
101 TTTTGTCTG TGTTTTATGT TGTTCTTGTGTT GTTTATTAA CATCAGTGTC
151 TCTTAAGATC CAGGACCCAG GGAGGTCTT TCACATACAT ATACCAGGAC
201 TCTTGGGTAC TACTGTCACT CTTGGGAAG CAGGCTCCTC CATGGCAAC
251 CAAATCCATG TAGCACTCCG AAHCCTTGGT TAGTCCTATG ACCTAAATAG
301 TTAAACTTCA GAAAATGGTT TCAACAGATT TCYSTCCGAG TGGTTTGAA
351 ATTGCATTTG TATTTGCTGT

ug222

1 GGAATTCTGTT TTTGGTTTG TTTTGTGTTG TTTTGTGTTG TTGTTTGTT
51 TGAGAAAGGG TTTCTCTGGC TGTCCTGGAA CTCACTCTGT AGACCAGGCT
101 GGCCTTGAAC TCAGAAATCC GCCTGCCYT CCTCCAAGT GCTGGAATT
151 AGCACCAACCA CTGCCTGGCC TCCTTTTTC TTCTGAAGGG TTTCCCCTC
201 CCCTTCCCT CCATCACCGA CTGATCTCTA GCAGCAATTCTTCTTCCGT
251 TTCTCTGTT CCTCTTYGGA GAGGATCTCA CCCTCTGAA GAAAGGAGGC
301 CTGCCTCTGC CTCCAAGTG CTGGAAGAAT TCCACCAC

ug223

1 GGAATTCTGAA GTCTGAAGGC ATTTAGACA GGAGACTGAG AAGTACTGAA
51 GAATGGCCTA TACAGAGTTT AGAGCACTAG CSGTAGCGTA CAAGACTGCG
101 TTCRGTCTC AGCACCAAGA AATAAAGGTG TCAGTSAGAG TAGGATTATC
151 AAGCTCTTGC TCCTGACCGA GCACCTGTCC CGACCAACAC CAGTGCACAA
201 CACGTAGCTG CTGAGCCTTG TGGCTGARCC CTTCKCKCC CCCATCCTCT
251 CCATCRCTGG ACTTGGTCTG CTTCTGAAA GCCTGGACTT AAGTCCTACA
301 GATCCTCTC TGTGTCAGCT TCTCTTTGT CAGAGTGTCC TCTGTGCTTC
351 TGGCTGCCTC CGTCCCCCTC TCAATCTCCT TTCTTCATG TTTC

112/472

ug224

1 GGAATTCTA TAGACACATC ATGACAAGCA TGCCCACAGG GTACTAAGCT
51 TTTGGCTTA TAAAAACTAG TGCCTATAAC TGTGTTGCCT GGTCTTAGC
101 AGTCTTCTAC ATTTGTTAAC TAAGTTAATG GAAGGGATT GCACCCAGCT
151 CAACCTCAA ATGAAATAAT TTTGTTACA TATCTTAGCA GCTTCTAGCA
201 ATCGAGTCAT AGGAGTTGAT TACAGAGCAA GCGCTGTGTC TTCATCTCTG
251 TGCTTCTGCC CTTAGGTCCA AAAGAAGAGG ATGAGCGGCC TTWGGCTTCT
301 GCGCCTGADC AGCCAGCCCT TCWTMCAGAG GTGGTAACCA GGATGCAGTT
351 YCCACAGGTG GGCCATCCCT CTTCAGCCT GCGAGTCACA GCCAGGKGCA
401 GATGGGAWAC AAGAAGTCAC AGACTGTGAG GTCAACAATA TG

ug225

1 GGAATTCAA TGATTTGCA ATTACAACAA TCAGTCTTCC AATTTRRCC
51 GATGAAGGGA GGAAACTTG GAGGCAGGAR CTCTGGACCT TATGGTGGTG
101 GAGGCCAGTA CTTCTAAAC CACGGAACCA AGGTGGCTAT ARCRGTTCCA
151 GCAGCAGCAG TAGCTATGGC AGTGCAGGAG TTCTAATTAC ATACAGCCAG
201 GTAAGCCTC CTTGTGTGT GTTDCTAAA TGTTATAATT GAACCCAGTA
251 ACCCAAATGT AGCTGAGCAG TACAACATAG TTAACATTAT AATTCAGTA
301 AAATGGTGGA TGTTAAGTTA ATATGCAGTT CCGCCAAATT

ug226

1 GGAATTCTG AGCCAGAGCC AGAAGACCTC AACACTGTCT CAGAAGATGG
51 AGACGCCAGC TTAGAAGATC TGGACCCTGA AGCAGACGAA GCTCCACGAT
101 CCATCTGGG GAAGCCAGAC TTGGATTCCC AAGATCTGGA TCCCATGTCT
151 TCGAGTTCG ACCTCGATCC TGATCCTGAC GTGATTGGCC CGGTGCCACT
201 AGTTCTCGAC CCAAGCAATG ACACCCCCAG CCCTGCTGCT CCAGATAGTG
251 GATTCCCTTC CTTCTGGGCC TCACTGCCAC CCCCAGAAAT CTTGGGCCAC
301 CAGTCCAGCG GTGCTTCCTG CCCCTGCCAG TCCACCTCGT CCGTTCTCTT
351 GTGCTGATTG TGGCGAGCC TTCCGT

113/472

ug227

1 GGAATTCCCG GTCATAGGCT GGGAGGAAGC AACAGCGAAG GTCAGGAACA
51 GAGGCAAAAC ACTTCCACG AATTCCCTT TCATCTGCAC AGCAACAGTC
101 TACTAGCATG GAAGTCGAGG CTAGGTGCAT TCTGGTCCAT CTACAGTCCG
151 GTTACCTAGT TACTCCCTCT CCCC GCCACA CACACACACA CAGCTGAGAT
201 GCCGGCAGGT AACTGTTCC TAAGACATAT GGGTGTCA TT TGTGCACCTC
251 AGGCTTGTCC AGGAACACCC TATGTVGGGC TAGACACATG GGGCACTCAC
301 ACTAGCAAAG GGCCTGTGAT TT

ug228

1 GGAATCGAA GGACTTGCCA CATTCTCAC ACTTGTAGGG CTTCCCTCCT
51 AAATGAATT A TCTGATGATT TTGAAATACT TCTTCCCCA CAAAGATGTT
101 GCCACATTCT TTGCACGTAT AGCATTTC CCCTGGTGAG TAAGAGTTGA
151 GAAATGATGA AAACACTGCC AAAATCTGTA TATCTATACT GATAGTTTT
201 TAAAAACAAAC ATTTACTCCT ATTTGCATTG GTCTGTATTA ATGAGATGCT
251 ATATTCAATT TTCTGTACCT GTATTCACTG AACTACAATT TAAAACACAG
301 GATAAGTGAA AGTCACGTAG ACTCCCTTGA ACAAAGAAGA CAATGGCMAC
351 ATAGAACAAAG GGAGGGRATA GAATATTAAA TAAAATC

ug229

1 GGAATTCCCG GCACAATGGA AAAGGAGATA GAAAGCRCRC ACCTCTGGGG
51 AAGAACATA ACCTCTAAA ACAGACTAAA TVGCAGGGCC ACHCTGTGAA
101 GAT

114/472

ug230

1 GGAATTCCAA CTTGTATTTA AAATTCAAGTG AGCATTGACT GTGTGCCTTC
51 TGTATAACAGT TAAGACCAGT TTTGGTGTGG CTGCCATGAC ACCAGAGGGG
101 GTTGGTGGCA TTGGTGGGGT GGGTGCTTAG TAATGAGGTC AGAGCGACTG
151 ATAAGGCAAA AGTAAAAGAA GCAAAACTAA GTATAGAGAA GGGGTAGGCA
201 TTCAAACCCC AGAGGACCTT GATTAAGTC CCCATTATA GAGAGTACCA
251 TCTTGAGAGA CCTTGCAAAG GGCTTGTGC TGCGTTCAAA TGTTATTGTT
301 TCTCTGTAC ACTGGATGCC CTCAGCATCC CGTTAATTG CCAATCATGT
351 CTCTCAGCTA TGCTCATCTC AGCCCGTGGAG TAGATAGCCT ACCAGCTTC
401 TTCTGTCTGG AACTTGCCTA CTGAGSTGGAG CCAGTCATAC CATCCCAGTT
451 CCCACTGACT ACTACTTGCC TCTGCAGTCA CCCATGGTAG TACTTAGCAC
501 AGATCTATCT TTGTAATGTG TTTTAA

ug231

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAAGT GTCAAGCATG ACAAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCGCCCTGGAA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GTTCAGCAGC CGGCCTTACTGGCACTTCA
201 GGAACAAGCG GGCCTGCTC GACGCACTGG CCGAAGCCAT GCTGGCGGAG
251 AATCATAACGC ATTCTGTBCCG AGAGCCGACG ACGACTGGGC TCATTTCTGA
301 TCGGGAATCC CGCAGCTCA GGCAG

115/472

ug232

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTT TTTTTTTTTT TTTTTCAAAT
51 TAATATACAT TATTTATTAA CAAATTAAA AAAAAACAAA AAAATGCAAC
101 ATCCTAAAAA AAATTTTAC TGGAATACA AATTCTATG AAGTTTTT
151 TTTGCTAGC ATAAGAAATT AAAGAAACCA TTAAATATT AGAACATTC
201 AACATCAAAA GCTTAAATC TAACTGTAGT TGTAGCCCCT GAAAAAGCTA
251 CAAACTCTTC TTAAAAAGTA TTTCTCTAC AAAGAATCTC ATCAGCTATA
301 CAAAAATCTG TACAGTTTT ATACTGAVGC TAATGTTGAG CTGCACTTGA
351 ATTCACATT CTTAGCAAAA TAATTGCCTG AGCAAATATA CTCCACACTT
401 TAGGACAGCC ACTTATTCTT CATCCTCCTCT

ug233

1 GGAATTCCCCG GCTCGAGCGC CGCTTTTTT TTKGGGGGG CTTACTCCAG
51 CGATGTCTAT TAGCAGAGAC ATGGGCCAGG GAAGGGTGAT GGATACAGCC
101 AGGGGTGGGA TATCAGCCTC AAAGTGCAGA GCTTGCTCT GAATCTCAGC
151 AGGCAGCAA AGGGACTGAG ACAAAAGCTCT CCCTTCAAG TTGGCATGGC
201 AATCAACTTG GAAATCAGGT TCCCCGGGCC TTCCTTCCTA ACAAAGGATC
251 CAGCCTCCTC CAACTGGTC TCCACTCAGC CCCTGTAGAA AAGTBCTGAC
301 AGTATTAAGT TCTACTCTTC CCTAAGACCC CAGGAGGTCC TCACCGTGCA
351 TAGATGTGCC ATCTGTTCTT GAGAAACCAA AGCACTTTGT AGTCTTACAA
401 CCCATAATAC TTACAGTAT

116/472

ug234

1 GGAATTGCT TGACAAACCTG CAGGCAGGCT CTGGGAGGCC GAGACATCGG
51 CGAAGAGAAC AGAGAGTCGG CGGGGACAGA TCTCAAGACC AGAGAATGGC
101 AGGTGAACAG AAACCCCTCAA GTAACCTCTT GGAGCAGTTC ATTTTATTAG
151 CCAAAGGTAC CAGTGGCTCA GCCCTCACCA CTCTCATAAG CCAGGTGCTA
201 GAGGCTCCTG GAGTTTATGT TTTGGAGAA CTGCTGGAGT TGGCCAATGT
251 TCAGGAGCTT GCAGAAGGAG CTAATGCGCG TATTGCACT HCTGAACCTG
301 TTTGCCTATG GTACATRCCC GGATTACATA GCCAACRAGG AGAGCCTGCC
351 AGAACTGAGT

ug235

1 GCGKTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTYGGCCAG TGCGTCGAGC AGCGCCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCSCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTGCG
201 TGTHGTCAGA CCGTCTACCC GACCTCGTT AACAGGTCCA GGGCGYACGG
251 ATCACTGTAT TGGCTGCAAC TTTGTATGC TTGACACTTT ATCACTGATA
301 AACATAATAT GTCCACCAAC TTATCAGTGA TAAAGAA

ug236

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TGCGTCGAGC WCGGCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCKCCGGCT GCTGAACCCC CAACCGTTCK CCAGTTGCT
201 GTYGTAGAC CGTCTCCGAC CTCGTTAAC AGGTCCAGGK CGCACVGATC
251 ACTGTATTG GCHGCAACTT TGTATGCTT GACWCHTTAT CACTGATAAA
301 CATAATATGT CCACCAACTT ATCAGTGATA AAGA

117/472

ug237

1 GGAATTCCCC GGCTCGAGCG GCCGTTTT TTTTTTTT TTTAATTAA
51 ATAAATACCC CGCTCCTCCC TCCACCCGCT TACGTTCTCC CTCTCCCCG
101 AACATCCCAC CCATCCCTGG CTAGACCCTT ACCCCAGAAC TAAATAAAAT
151 GCCTGTTTA CAGCAGACCA CACTCACTAC CAAATTCTGG GAAAACCTATA
201 AATACTGTCA CTGTCTGGGC CTCTCTGCCT TCTGACTCTG CTCCGGAGGC
251 AGCCACATT CCTCCCTCCC GTTGACTGGG CAAGGATGGC AGAGGCCTGT
301 AGGCACTGGC CTTBGAGAGT GCAAATTAG CCTTGGGTTCTCCACCTCCT
351 GCTCAGGAGT AGGTAGAACAG GGCCCCAGAA ATTCCCTCAG ACTAAAATAA
401 ATAGCAAAAT AAATACCT

ug238

1 GGAATTCGCA GGTCGCCGGC GAGCCGCGTC CGGAGCCGG CGCCGAGCVG
51 GCCTGGGGAG GCGGAGGCCA CACCCCGCBC VCGCCCAGGC BCTTCCCGCC
101 GGTGAATCAT CCCCGCAGCA GCSGCTCCCG CAGTCCGCTG C

ug239

1 GGC GGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT
51 GATAAAAGTGT CAAGCATGAC AAAGTTGCVG CCGAATACVG TGATCCSMSC
101 GCCCTGGACC TGTTGAACGA GGTCGGCGTA GACGGTCTGA CGACACGCAA

ug240

1 GAATACTTT ATTTAGATTT TATTCTATAAA TTAAGTTGAG AGCVMTTATT
51 TGTAASGHVG CTCTATTCC CTTGTCCTTT CGTACTGGGA GAAATCGTAA
101 ATAGATAGAA ACCGACCTGG ATTVMMMC GG TCTGAACTCA GATCACGTAG
151 GACTTAAAM CGTTGAACAA ACGAACCTT AATAGCTTCT MCACCATTGG
201 GRTGTCCTGA TCCMACATCG AGGTCGTAAM MCCTAATTGT CGATATGAMC
251 TCTTAAATAG GATTA

118/472

ug241

1 GGAATTCCGG AGTCTCCATG CTATGTCCCCA GGTGATTCCCT CCACAGTAAA
51 ACGGGGAGAC CTCTGGGTTG GAGAGTCAGC GCTGGTCACT CTTCATTCAC
101 TTGCAGGGAG CCTCAAGGTT AACAGAGCTG GGCTTCTGTG AGCAGCATGG
151 CCTGGAATGG GGTTTGGCAT GGTCAAGCGTA AGATGGTCGA GAAGGTGGAT
201 CTAAGGACCC TTCCTAGCAT GGGGCAGGAA AATAGAGGTG GCTCCAAGTG
251 GGCCTTGAGG CCCTAGAGGG TTAAGTGCGB TCTCACAGGA ACCAAGGCCA
301 AGYCTGGGCC ACAGTTDAGA GACATTCCAC AAACCCTGAT CCAATGAWTC
351 AAGCTATAAG CC

ug242

1 GGAATTCCAC KACHAGGGGA CTTGTTGGTG GTCCCCTTCT ATCTGAATCT
51 CATACTCAGA CACGCTCCCA CTGCTCCCCC GATCTGAGTG CCCCTCTTCC
101 TGCAAGCGGC TCCGAAGGGC TTGTTGGGG GTTGTCTCCA TCCGAAGATC
151 ACTGCTGACT GGAGGCTGCC GTACCTGAGG GCAGTACGGA GGGGAGATT
201 CAACAGGATT GGTGAAGAAG CTGCCATCTT TCACCCATHC TGTTGAAATC
251 TCCCCTTCTA TCTGAATCTC ATACTCAGAC ACGCTCCCAC TGCTCCCCG
301 ATCTGAGTGC CCCTCTTCT GCAAGCGGC CCGAAGGGCT TTGTTGGGG
351 TTGTCTCCAT CCGAGGATCA CTGCTGTCCG AACCTCCCCC GT

ug243

1 GGAATTCGTG TGCTTGAGC TTTACTAAAG TTTCTTAGT GAATGTGGCT
51 GCTCTGTAT TTGGAGCATA GATATTCAA ATTGAGAGTT CCTCTGGAG
101 GATTTACCT TTGATGAGAA TGAAGTGTCC CTCCTGTCT TTTTGATGA
151 CTTGGGTTG GAAGTCAATC TTATCAGATA TTAGGATGGC TACTCCTGCT
201 TGTTCTTCA TACCATTTC TTGGAAAATT GTTTCCAGC CTTTCATTCT
251 GAGGTAGTGT CTATTTTT CACTGAGATG AGTYCTGTA AGCAGCAAAA
301 TGTTGGGTCT TGTTGTGTA GCCAGTTGT TAGTCTATGT CTTTTATTG
351 GCGAGTTGAG ACCATTGATG TTAAGAGATA TA

119/472

ug244

1 GGAATTCCCC TCCTTGACTT CTTCTTCCC AGCTGGTTTC GAGGTCTCAG
51 CAGACTTGGC ATTGCCACA GGCTTCTGGG GCTCAGCAGG TTGTKCGTTG
101 GTTACAGGTT TCAGGGACCC TGAAGGCTGT KCGTTGGCTA TGGGTTTCAG
151 GGTCTCKGCA GGCTTGGTGT TGCCCACAGG CTTCAGGGTC TCGGTAGGCT
201 TBGCATTACC TATAAGGTTTC BGGGTCTCAG CAGGCTTKGC ATTGCCTACG
251 GTTCAGG

ug245

1 GGAATTCAATT GAGATCGTTC AGGAAACTAT GCATTCCAAGGCCATTATAT
51 AGTCTGGGCA AGATAAGTTCTTATTCATT TGTCTAACAC TCATGTTCAA
101 GGGAGGCCCT GGTTCAAGTCT GGGCGCAGGG CTCGCAGATT ACACCTTACA
151 GCCTCTCATG TTCAGATAAC TGGCAACAAA GCAATAAAAAA GCCGTCCAAC
201 TTGTCAGTGC GTAGCAGCAA AGCCCTTCAT GTGGGCAGGA CAAAGGGCTG
251 GCTCTCATTAGATGATTAGCTCATTCAAGGT CACATCTAGG TCACTTCCAC
301 CTTTGTCTGG ATTCCAAGGT TAGCCCTCAT CTAGGTGAGG GGATGGGGCC
351 CCTGTGAAGT CCTCAGAGCT CACCCCTGGAG AGTTAAGATG GGCACAATGA
401 GAAACAGGAG AGCAGGGTAT GTTCCTCACC AGAGCCAGTG TTGGCACACT
451 GGCTCAATCT CAAGAGGGTTC CCCAAATGAG TCAGATTAT AGCTGACATC
501 AAGGACAGCG TCAGAGACTCTAGTCTGTGA AATCATCACT CTCAATTGAG
551 GGAGACCAGA ACCTAGGGTA CCACCCAGGG AATGTCAATT CCGATAGACA
601 CAGGRTCGGT AGCCAGTGTG TGTAGTTAGG CTTCGGACTG TTG

120/472

ug246

1 GGAATTCTCG AGCGGCCGCT TTGTTGTTT TTCCTTGATA TTAAGTAGTG
51 ACAGTTTCT GGATGCAAAA CCACAGACGC ATCGCCTTCA GTGCAACAGT
101 CCTGCGGGAT GATCGGCCTT CTCCAGGGGG ATGTTGGCTT CCAGGCACAT
151 TTTCACAAAG TCCTGGATAA CACTGGCTT CTCTGTTGC GCAGGACTGT
201 TGCACTGAAG CGATGCGTCT GTGGTTTGC ATCCAGAAAAA CTGTCACTAC
251 TTAATATCAA GGGAAAACCA ACCAACCAAC CAAAAACCCG ACTGGAAATT
301 AAGCTGAAGA ACCTTATTCA GAGACAAAAT GGAACGATT GTTGTAAACAG
351 CACCACCTGC TCGAAATCGT TCTAAGACTG CTTTGTACGT AAMCCCTTG
401 GATCGAGTCA CTGAATTGG AGGT

ug247

1 GGAATTCCAG TGGGATTCCCT CAGCTCCATG ATGCAATGGT TATCTTTTG
51 GTAAAGAATA TTCAAGTCCT GACATCATAG TAGTAATGGA TATTACTCAT
101 GGTATGCTCT CAAGCCCAGC ATGGCACATT CTGTACCCCTC TTTATCACTG
151 AAGTAAGCAA TGGGTTAAA AATAACGTTG CTTACACACC CAGAGTACCA
201 ATGATTCACTT AACAACTGAA CAAATACTGC TCTGGACTCC AAAATTATTA
251 CAGAATTAA TATACAGGAT TTTGAGGCAT AGGGTATTTT CCACCCCTAG
301 TAGAAGTAT

ug248

1 GGAATTCGGT TTTAAGGGA ATTAAGTCTA TGTTGATAGT ACAGGGGGAA
51 GAGGATATAA AAGTGAATT ATAGTTTCC CAGACCACAA GGCATTGTTG
101 TGCCTGGTG GCCACCTAGG TCAAGACCAG GATCTCTCTC CTGGGGAGCC
151 AACAGGAGCC TTCCAAAATT ATCAGGGAAA GAGGTTTCT GTCCTCAATC
201 CAGCTTGGGA GAGATTTGT TACTGACACA TGATCCTTCC CCCACCCAGT
251 AATGAAGTGT TCTGTGTGCT AACAAATAG GCTAAAAAAA AAAAAAAATC
301 BSGCCGCBAA TTTCCACAC ACTGG

121/472

ug249

1 GGAATTCACTT GAACCCCATG CAATTATAAGT GGGTACTTCA ATACCCCTCT
51 CTCACCAATG GATAGGTCAT TATAACAGAA ACTAAAGAGA AAAGCAGTGA
101 AACTAATAGA TGTTATAAAC CGAACAAATC TGATATCAAT GGAATTTTC
151 ATCGAAAAC AAAAGAATAT GCCTTCTTCT CGGCACCTCT CAGAACCTTC
201 TCCAAAACGT ATCATATAAG TCAGCAGGAA GTACCAACAG GAACACCAGG
251 AGTTCTCAGC TGTGCATATC TCAGGGAAAGT AAAGATCAGT GAAGATTGCA
301 AACCAATTGCA CAGCTAGCTG TACCAGCAAG ACTGCACAGC TAGCTATACC
351 AGCMAGACTA GCTCTGTCCC CACCACTCCA TGGAATCTTA

ug250

1 GGAATTCAAA GAGGCAAACA TAGAATCAA CTAAGCAGTG GGTTCTTGC
51 AAACAGTTGC CTTCATATTA CCTCAGCAGT TAAACGTTG TGTGGAGTAC
101 TAAGGTGGTG GTGGAGTGTG CTTGTTTAG TTCTTTACT GGAGTGGCA
151 CCCCCACTTG TCTCTCTCCT AAAGCCCTAC TCACTTTGTA TCACTGTAGC
201 CAGACCACAA AGGCTGTATG TTGCAATGTA TCAAGTGACA GTTTAGTTA
251 AACATAAAATA GGCCCATTGA ACCCTGCCAA ACCTGGTCAT ATAGATCAAG
301 GTCAAGGTAA AATACCAGGT TTCTGTAGTA GGGGG

ug251

1 GGAATTCCCC GGCTAGAGCG GCCGCTCGAG CGGGGTCGAG CGGCCGCTTT
51 TTTTTTTTTT TTTTCACGG GAACAGACTT TATTAGTTCA CTTGGGTCTT
101 CTCTGGTACG GCATTGAAG GGTTCTCTGG CACCCCTCA TTTTTTTCTT
151 TTTTGGCAGC AGCTGCAGCA GCTTTAAGG CCCTTTTTG CTTCTTCAGC
201 TTTTGCACCT CCTGGTAAAC CCGAATGCAC AGAGCCTCT TGGCCAGGAA
251 GCVGCGGTGA ACCTTTGGT AAATGTCAGA GGGGGGTAAG GTATATTCCA
301 CCCCTAGCTC CTTGCATGTC TTTCGAAGA CATCATAGTT GGTCTGACGG
351 AGGATTGAA GCAACTTTT

122/472

ug252

1 GGAATTCA TTATAATTAT GAATCATGAA TATCTGTATT TGCCGATGGT
51 CTCAGGTGAC CCTTGTGAAA GGGTCGTCTC ACCCCCAGG TTCTGTCCAC
101 AGGTTGAAAAA CCACTGTGTT GGAGGGTGCT GACTGTAGGG CAACAACCTG
151 AGGACAAAAAA AAAGCCTTGA ACATGTGTTG TTGCTCTGGG AGCTGTGTGC
201 TAGCTCATAT CTTCGCCAGT CCTCCCACTA AGCTTGGCTG GTTCGGGGTA
251 CCCCCCTATTT ATGGGACYCA GGGTAGGGGT GAGGCAGTGA TGGKGCCAGT
301 CTGCTGCACT GCCCAAGCAG TGACCGCTCC CTTGATCTGT GCTGACTGTT
351 AAGAGTGAAK KKCTTCAGAA AGTAGTACTG CCACAGCCAC CAGA

ug253

1 GGAATTCCGG CTCGAGCGGC CGCTTTTTT TTTTTTTTT TTAGTTGCAA
51 GCAGATCACA AATCCTCTTA GATGTAAGGA AAGTGGGTGT TCTGGAGAGG
101 ACTCAGATCC TGAAAATGAG GAAGTGAGAA TGGCTTTAG CCATTTGG
151 AAAGTACAGT CTGTAATAGT TTACCTCTG GCCCAGAGAA TTCACATTCT
201 TCTGCCTGAA CAATGCAGTT AATTTTTTC TTCTACAAAC CCCTATGGTA
251 TCAGCTGGAT GTCAGGGTTT TACCATTAA ACCTGATCCA GTCACAGAAA
301 TGGTTGTTA TTGCAGATGA TACTCCTCAT ATGAAAGAAA ACCTATGAAA
351 CAAAACAAGT TAGCAGCTGC CCATATATTAC TACATATATT GAGAGAAGTA
401 TAAGACAGTG TATTAACAT GAGAAAAATG GAAGGCACAC AGCAGACACT
451 GTTCTATACA GTTCAATTG AAGTCCAGGG TATATGTTGA CAGCTGGGTC
501 AACTCCTACT CTCTGCAGTA TYCTCCAACA AWCCCC

ug254

1 GGAATTCCAA GAATGTACGC CAGAGGAACG CCACCTGAGT GGTGGGGCAG
51 GCGGGGGAGG GGAGGTGCC AGGGTGCTG ACCCCAGGCC AGCTCTACCT
101 CCACTCCAGT ATCCCACCT GTCCCGATTG AACCTACCC AACCCAACCT
151 ATCCCAACCC AAGTGAAGAC AGAGCCTAC CTTACAGAAA ACCCACCTGG
201 AAGAAGCAAR CCACTTCAGC CCCTGTTCT AATTAAACT AAAT

123/472

ug255

1 GGAATTCTGTG AAGGTATGTG ACAACGTTA CCTGACTAAA GCAGCTATCA
51 GCTTACAAGT TCCCTGCTTC CCCAGTCAAT TTGGTGACTT TCATTCTTAG
101 TGCTTCGACC CTTTCCTAC AGCAAGCACA CAACACTGCA GTTCTTACC
151 CTGCAATCCT ATGTATTTGC TTCAATTTT GTTCTCCACA TCCTCAACTA
201 TGCATTATTG GGACAGCAAA AAAAAAAAAG AAAAAGATTCTTTCTAA
251 GGGAGAAGTA AGTCACTTAG CCTTCACTAT AGACCACCTG GGCACAGTGC
301 ACAAGAACG CCGAGCTCAT CCTTTCTG T

ug256

1 GGAATTCTGTG AAGAGTACTG CCTTGTCTT TGGCGTGTGC ATCGGTCTG
51 CTCTCACCCG CAGCCTGCGC TCTACTGCCT GCTCCAGTCC ACTCCTGACC
101 GACAGCATCA TGGCTACGAG AGGCAGTGTG ACTGACTTCC CTGGATTTGA
151 TGGCAGGGCT GATGCAGAAG TCCTTCGGAA GGCCATGAAA GGCTTGGGTA
201 CCGATGAGGA CAGCATCCTG AACCTGTTGA CATCCGAAG CAATGCTCAG
251 CBCCAGGAAC TTGCTCAGGA GTTTAAGAAC TCTGTTTGG CAGGGACCTT
301 GTGGATGA

ug257

1 GAATTCCCGG CTCGAGCGGC CGCTTTTTT TTTTTTTAA CAAACCTTG
51 TGTCGAGGGC TGACTTCAG TAGATCGCAG CGAGGGAGCT GCTCTGCTAC
101 GTACGAAACC CCGACCCAGA AGCAGGTCGT CTACGAATGG GTAGCGCCA
151 GGTTCCACAC GAACGTGCGT TCAACGTGAC AGGCGAGAGG GCBGCCTCTT
201 CATAATTTTC AATCTGTTCC ACTTGTCTT CCCATCTGTC TACCATGTAC
251 TTGTACATGT AGTCATGGCT TAGGTGTGGC TTGTGACAGG TGGGCCTCTG
301 GGTTCCCAT GCTCAAGGCA AGGGAAACTG TCTTACTTAA CAGTGTGTG
351 CTAAAAAAAT CTGGCTTTTGAGAGTGCA GTATTTAAAA AACAAAAGT
401 TACTATCAATTCTATAAAG TTGTTGAGA ATTATATGG GTCCCAAATG
451 TCCTTCTGA CTGAAGTCTG CAGTAAADCG AATTCCACCA C

124/472

ug258

1 GAATTCCGGC TCGAGCGGCC GCTTTTTTTT TTTTTTTTTT GATTAGCTCT
51 GGATAATTT TTATGGGGAG GGGAAAAAGG CATTGATAT CCTGCCTTC
101 CTACAGCACT CAGATTAAAA CACAGGCTTA AATTAATTCT GATTGCTCC
151 TTTTCCTTGT TCCTTCCTGC AGAGGCTGAT GGGACAGTGT CCAGGGCTGG
201 AGAGCCACGT GTTCTGTAGA TGATAAAATAA CTATGAACAT TTGGTGCTGA
251 ATTTTTACA CTTGTCTCTT GTGGTGCTAT TGTCCGGAGA CCCTTAGGTG
301 GSCCTAGGGT GCCTGCCATG CCTCATTCCC TCGAATTCCA CCACACTGGC
351 GGCGCTCGA GCATGCATCT AGAGGGCCCA ATTGCCCTA TAGTGAGTCG
401 TATTACAATT CACTGGCCGT CGTTTACAA CGTCGTGACT GGGAACACCC
451 TGGCGTTACC CAACT

ug259

1 GAATTCCGG CTCGAGCGAC CGCTTTTTT TTTTTTTTTT TTTTTTATGA
51 AATGAGTTCA TATTCAAGTG TGACTATGTA GTCAAGTACA TAGTTGAACA
101 TGAGTAGCCT CATATCATAA AAGTAGTCTT CTATCATTCA TATACTGAT
151 ATATCATTTC TATACACTCC TTTGCTCTAT ACTGTGCCTT GGAGATCTTA
201 AGTCATGTTA TCATCTTAAA GTGTGTCAGG GTAGTTACCT ACCTCAGGCA
251 TTCAGGTTAT TTCTAGTTT CAGCACTWC AAATACCTTT AGTKAGTATC
301 TTTGTGTGTA CTTTTCAT A TGCTGTGAA CAGTTCTTA AGCAGGACTG
351 CAAAAATGTA AATTKCTGCT TTTCAGCTTA GGKCATCTAA CAGATACACT
401 TTCCCTCAAA AGC

125/472

ug260

1 GAATTCTCA GACCTGGAGC AGGCGCGGCC TCAGACTTCT GGAGAAGAAG
51 AGCTGCAGCT GCAGCTGGCC TTGGCCATGA GTCGCGAAGA GGCTGAAAGG
101 CCAGTCCCCC CAGCCTCCA CAGGGATGAG GACCTGCAGC TGCAAGCTGGC
151 TCTGAGCCTG AGCCGGCAAG AGCATGAGAA GGGGGTGAGA TCCTGGAAGG
201 GAGATGACTC TCCAGTGGCC AACGGCGCAG AACCTGCTGG CCAACGTCGT
251 CAACGGGACA GGGAGCCTGA GAGAGAAGAG AGAAAGGAGG AGGAGAAGCT
301 GAAAACTAGT CAGTCCTCCA TCCTGGACTT GCTGACATCT TCGCACCTDC
351 CCCGGCCCTG CCTTCCACCA CTGCTCTGCT GACCCATGGG ACATCCCAGG
401 TCTCAGGCCG AACACAGAGC CAAGTTVGCT CCTCTT

ug261

1 GAATTCTTTT TTTTTTTTTT TTTTTTTTG AGGTGCTGAG TCACACTGTT
51 AACTGCTTTA TTGAGATTCA GGGAGATCCT TCCCCCAAGA GACACCACAG
101 TGTGAAAGGG ACGCTGCCCTC CCGCCCGGTC AGTCCATCTG TCCATGCCTT
151 CATTGATCA AATGTGCACC CACTATCCAC TGGAAACAGC CTCCAACCTG
201 TCCCCATTTC TTTTCCCCTT AGTTCTGAAA AATAATAATA ATAATGACAA
251 CAAAGAAAAG AAAACCAAGA TGCAGTAGTT CTGAGAGATG ATTGTACAGA
301 CCCAAAGTGG GACGCATGAG AATAGAGGGA ACACTTGAGA GTAAACCTAA
351 GGCCAAGGAG AGGGTATGCA TGGCTCAGAA AACACGTACT GGGGAAGAGC
401 CTGCTTAATC ATGTGCATGT TGGGTGCACA TGCCTCTGCT GAAAGAAGAC
451 AGGACATCAG CTAGGCAGAC AACTGTATCC CATA

126/472

ug262

1 GAATTCCACA CCTTGTAAGG ATGGTATAAC CTCTGCCTTA AACAAAGTTCA
51 AGAAAAGGAG GGGCAAAAAG AGCGCTTGT A TGCA GCTTTA ATTATCTGGT
101 CCCCCCTCACC CCCTGCCTTT TGCTGTGCTC TTAGCCCCAG GCCAAAGGCT
151 AAGACTGGAA CTAAATTGC ATA ACTCACC TCCCACATAG GTGTCTTGT
201 CCACTCCTCT TAGCCTTCGT GTATCCGGAG CAGATTTAT AGCTGTGCAG
251 TCTTACTCCA TTGCTACCTA AGGGAAAATC TGTTAGGTTA AAAAATTATT
301 TCTGTCCCCT GGCTGGATTT TCAAAACCAA CTGTGGAAAT AGGCTAATGA
351 GACTGGTAAA GCCAACCAAGA ACACCCACAC GCTATTCCA AATCAAATGC
401 GTTGTAAATT GGGCGAATCT TGTATTTGT A GCTGTCTGGT AATGTGAGGT
451 CAGATTTWA GCATTCTATC ATCATGAAAT TGCAGTGTCA CTTTCCATAG
501 CAGCCGAGAG AATGATAGTG AGGTTAAGGA GCCATAACCG TAGAAAATGA
551 AGGTGCTCMA GGGCATGAAT GTTCTGA

ug263

1 GAATTCGCAG ATGGGCCAAG AGCTTCAAGG AGAAATAGTT GTAATAATTG
51 CAGATCAGTA TGGAAATCAG ATTTCATCAT TTTCACCTGA TTCCTTATCT
101 ACTTTGTCGA TTACTGGAGA TGGCCTTGAC AGCTCAAACCT TGAAAATCAC
151 CTTGGAGGCC AACTCACAGA GCGTAAGTGT GCAAGGCATC AGGTTTACTC
201 CAGGGCCTCC TGGACCCAAG GATCTGTGTT TTACTTGGCG AGAGTTTCT
251 GACTTTCTGC GCGTGCAACT GGTTCTGGA CCTCCAACCA AGCTGCTGCT
301 TATGGACTGG CCAGAGCTGA AAGAGTCCAT TCCTGTGATT AATGGAAGAC
351 AATTAGAGAA CCCTCTCATT GTTCAACTTT GTGATCAGTG GGATAATCCT
401 GCTTTAGTCC CAAACGTTAA AATATGTCTC ATAAAAGCAA GCAGCTTAAG
451 GCTACTACH TCAAACCAGC AGCATAAAAC SGATTCCACC AC

127/472

ug264

1 GAATTCGAAC TCTACAGGGAC AACCCATTC CTGAGAGGGT AGGCCAGATG
51 GCTCTGGGTG ACTGAGAATG TCATTCTTG AATGGGGGAC AGAACGGAGA
101 GGGGGTGGGA TTTGTGGACA CATTCACATA TAAGCATATG CACCCCAGCA
151 ACAAGGCTCC TAATAGCCTC TCCAGGAAGG AGACACCGAC CCCTAGATT
201 CTGGAGTGTG TAAACAGCCC ACCCCTAGAG CCCTCATCCA GTCCATTCT
251 CCAGCTCGCA AGACCCGGCT TCCAACGTGA AGTCACCAGG GCGTAGAAAG
301 TCCCTCTGA TATTCACATG ACAGATTCTT TTTCGAACGT GGCACTGGAG
351 TCCCCGGTGG GTCCCTGGTA CTGTTTCAGG AGGGGATTCC CCTCCTCTGT
401 GGCGAGGGGC AGTGGATTCA GAGACACCTC GTTCTCACCTGGATCAATT
451 CGGGCTCTGA GCTCGGCATC TTGGTTCGAT CCACGTAACT CTGAAGCAGT
501 CCAGCCCCAA AAGCATCACCTTCCACGTTG AGGACAGTAC AGGACCTGTC
551 CACTAGCCAG TCCACGCCAA GATCAAGGAG ATGTCCTTCA CAGGGCAGGC
601 TGACTTSTTT C

ug265

1 GAATTCTCC AGTCGGTTAG CCGGAAAAAC GGGTGTTCT TGACATCCTC
51 TGCATCCTTC TCACCAGCTC CCAGGCGCCG CTCAGGATTCTCCTTAGCA
101 GCCTTCTCAT TATGGAAATG GCTTCTGTAG ATAAGAACCT TGGATACCTT
151 ACTTCGTCAT TTACAATACT GTCAAAAACC TCTTCTCAT CATCACCAAGG
201 AAAGGGAGAC TCGCCGACGA GCATCTCATATGAGTACA CCAAGGCC
251 ACCAATCTAC AGCCCTTGTG TACGATGTTT CTGTTAGGAC TTCTGGGGGC
301 AAGAAACTCA GGGAGTACCA CAAAATGTGC TTGTCCTATC TCCATACCCC
351 ATTCTTCTT TGCAAAGACC AAAGGTAGG CAATTTCAC AAAGCCTCT
401 GTATCTAGCA ACAAGTTTAT CCAACTTCAA ATCTCTATAA ACAATTTGT
451 GTTCATGTAA GTATTGCAAC CCAAGAACTA CACA

128/472

ug266

1 GAATTCAACC CGGCTCGAGC GCCGCTTTT TTTTTTTTTT CTAAGGACCT
51 TAGAAAAATA AAAAAAAAAT TCTGAGTGCC ATCTTATCA TCTCTTCATG
101 TGTGTGTATG AGTGTGTGTG AGTGTGTGT A TGTGTGTGT GTGTGTGTAT
151 TGCATGTGTG TGTGTGTGTG GTATGTGTGT TGTATTGTAT ATATACCAGA
201 CCATGAGGTA ATAGGAGAAT AACTATTCT CGCCAAGATT TTTATCTTGT
251 CTAATCAAGT CATGTTCTG GCTAGAACAC CTTCTTGTA ATCATTAA
301 ATGTAGTCAT TTAAATGAAT AATCCAAACA GAAGTCCTAT TAGATCCATG
351 TTTCTGTTAA ATGATTGCTA AGCCCTAACCC TTTCATTCC CTTCAGGAAA
401 SCATCAAAAG CATGGTTATC ATTCACTCTA GAAGCCCCGA TTATCGTTT
451 AAAGTCATCA

ug267

1 GAATTCTGG TAAGGGCAAG TCATACATGG AACTCGGTT TTCACGGCAT
51 GCTTAGAAC ACTGCGTTGT GGAGCTTGT TCGTGTAAAGGAATTCTA
101 ACGCACTAAC ACATAATGAC TCTAGCCYTA KGATGCACAG GCAAAAAGGA
151 GGCCTAAGGA CTCACTTACA CACTGCAATA AAAGCTTKCT CCACTTGTTC
201 TCCAGGAATC GCC

ug268

1 GCGCGGATTCTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CYGCCCTGGACCTGTTAAC GAGGTCGGCG TAGACGGTCT GACGACHCGC
151 AAACTGGCGG AACGGTTGGG GGTTCAGCHG CCGGCGCTT ACTGGCACTT
201 CWGGTAC

129/472

ug269

1 GAATTCTCA AGTTGGTCTT GAACTCCTGA GTTCAAACAA CCCTGCTGTG
51 GAATCCACGG TAGCTAGACC TACAGATGGC ATCACCAAGG TCAGCTTGAA
101 CACACAGTTA AAAATCATTA ACCCCAAACT GACCATAATG TATCAAAGAT
151 GGGTAGGAAT TTAATAGCCT GTCTTATGT TTAAAAGGTC AACCAAGTAA
201 CAATAATCAA GATATCTGAA GAAGTCTGCC AAGAGAGCTG GTGCTTCCTG
251 TAAGCTCACA GGAAGACGAG GAGCTTCAAC CCAAA

ug270

1 GAATTCTTA TTTCTTAAAA TAAAAAGAAC ATCTAAGGAC TGAGTCCTAT
51 ATGCACTTA GAGCATTCT ACAGCATGCG ATTCTAAGAG TAACCCCACC
101 CAATATGGCA ACAATCAA TTGTTTAAAA TTTAACTTAG AAAGTCTGAG
151 ATCATTATTT TCAAAACATT GATTGTACA TTGTTTCATA CACAAATAAC
201 CAACTGACTA TCCAAGCACA GGACAGGGCA CCTCTCTGGA GAAAAAAAAT
251 CTCTGACAGC AGGGGCAGGA CGGCTAGTGT CACATGACTA CAAACGTCCC
301 TCCAACCTCA CAGGAAACCC AAGGAAAGAA CAGAAAGTGG ACAGTGAGGG
351 GACAGGAGGG ACAGGAGGG AGGAAAVCAG CTYGGGAGTA AGTCMSCTGC
401 CTGAGCAAGG GAAGGAAGGA CTCTGACCAA GCATTCTGG SCMATCCTAA
451 CATGTGC

130/472

ug271

1 GAATTCTGCC TCTCTTGGAG GTCTGCTCCT TTTTGAAGAG GAAACGGGTG
51 AGAGGGTGTT CAATAATGGA GAAAAGAGGA TAGGTGAAGT GGGGGGCATG
101 GGGCATAGCT AGGAAGACTG TAGGGAGGAA AAACAATGCT CAGGATATAT
151 TGTATGAGAG AGAACCGAGG CAGTGGTGGA GGTCAAGGGTA GTACAAATTA
201 CGGAAAGAGC CAGCGACGTG GTGGTCATCA GAATAACTAC AAGCCATACT
251 GAGAGGCAGC AGGAGCGCCC GAGTGACGAC CGCACACGCT TTGTTTGGAC
301 GCGGGAATT CACCACACTG GCGGCCGCTC GAGCATGCAT CTAGAGGGCC
351 CAATTGCCCC TATAGTGAGT CGTATTACAA TTCACTGVCC GWCGTTTAC
401 AACGTCGTGA CTGGGAAA

ug272

1 GAATTCTTA TTTTCAGATG ACAGTTTCC TCCTTTGGA TCACTGCTAC
51 TGCAGGTGTT TTTAGTAGGC AAAGTAAGTG AATTAAAGAT ACGATTCTT
101 ACAAGTTGC TGGAGCCAAA AAAGGGAAAT GAATTTTAT CTTTATGGG
151 TCCAGGTCGG TCATAAAATG CTGGCTCAGC ATCTCATTG ATGTCAAGGA
201 AAAATGTGCT GGTGGAGGTG CTGCCGAAGC GGTGTCCTC CAGCATGAAC
251 ATGCTTGATG GTGCAGACTC ACTCTCACTG TTATGTCTAG AGCTGGTCGA
301 CTCAGAGTTC AAGCTGAGGG TGCTTGGGAC AGATGAGAGC TCATTGCAGA
351 GCTGCTCCAC ATCATCTGGA ACCACTGGCC ATAGAHCHTH CACTGTSCTT
401 ACAGAATCCC AGCTGTGACA TTTCAAAATA TCACAGCCTT ACCTTGGTTT

131/472

ug273

1 GAATTCCACT ACTCTGCCAA TTAAAAAAGA TTTGTTTTG CAAAAGTTAT
51 GTTGAGAA AAATAAAAAA GCTTATGGTC CTTGTATTAA GCAAAATAAG
101 GTAGGCTCAG AAAGATGGGT GCTGTTTCT CAGATATATG AAATCCACAC
151 TTAATAGTAT AAGATTTAA GACGCAGAAG GTACTATTCA TTTAGAAAAG
201 GGAAAGTAAC CTGTGGGGC CAGTACAGAG GACGAAATGA GGATGAACAA
251 GCTTGAATT CGAAATAAAG CTGTGTGTGA ATGTCACAAA GGTTCTATCA
301 TACTGACCAA TGAGTGTATG CTAATCAAAG TAAGATTCGT TAAAATGGTT
351 TGAGAAATCA TTGTTGAAAT GTTAATCAAT CTCATCTGAA GCTCCGTCTA
401 GATTTTATT TTTTATAGAA CTTTATAAA CTCTTCCACC TCAAGTYCCA
451 AATTGGAAAG ATTTACTCCT CCTTCATAA GTTYCCAAG ATGAGATAAG
501 AGCYATRCAA WGGTTGTT GGGAAATTGA GGCATGGACA TCACTACATG
551 GGCTT

ug274

1 GAATTCGCGC AGAGGAACCTC TGGTATCGAT GGTACAAGAA GAGACCCCAT
51 GATCATCARA GACAGACARA GGCCAGCTGG TTCCAGACTG GCTTACAGGK
101 AAAATCCAGC TGCTGCTTGG GCCCCTGATG GTCGACCCAG TAGAGGGATG
151 GATTCAAGGT AWCAGCCTTC CC

ug275

1 GAATTCTTGA AATTTAAAGA AAAAATTAT TGAAGATCTG AAAAACAACT
51 CCTACAAGAT TGACTTTCC ATAAAACCTGC AGCTACACGA TGCATTGCGT
101 CTATCATGTT AAAACGTGCA TTAGACACAA ATACAAAACC CATGAAAACA
151 AGCCACCATT CTTAACAGT TGAGCAAAGA TAAGATGCCT AAGGAATGAC
201 ATGGATGACT TGCAAAGGAT GGGCTTTA AGCACCATT AAAAAAAA
251 WAAGAGCACA GATGGATGAG TGTTCACTTA TATACACTGA AGTGAACCTT
301 TGGCACTAGG AATCAGAGCA WTTGTCTAA GAAGCATTWA ACACATATTA
351 TAAAAA

132/472

ug276

1 GAATTCAAAA ACCTTTAATG AGTAAAAGAC AGTGTAGGGT TTGTGCCAT
51 TGTCCATGTG TTGCTCCTAT TGTACCCCT CCTATCAGAA GGTATTTTG
101 ATGCGGGCVG CCACCAGGAC TAGGATTC CCAATCTCC TCTGCCAGTT
151 GGTGATATCC TTGGACACAG CACACCACAG CTCTCCATGT CGGGGCTCTG
201 CATTCTCAC ACGTTCCCT ACCTCCTCCT GTTGCCTCTC AGTTCCATGC
251 TGCAGTTCAA ATTTGTAGAA GAAGGCCAG GCATCCCCC AGATCTGAGT
301 CAATCTCAC AGTGSATGG AACCACTCCC GAVCCYTGGT GATTTCTT
351 TCACTCCAGA ACAACTTAGC CACAGCTAAA AGCACATGVG GTCATGTTCA
401 CACTCTTCA GGGCATCCAC ACTCT

ug277

1 GAATTCATGG CGCATCCGC ACCCCTGGCG CCCGGCGCCG CGGCCGCGTA
51 CAGCAGCGCC CGGGGGGAGG CGCCCCCGTC CGCCGCCGCC GCCGCCGCCG
101 CCGCCGCTGC TGCCGCCGCC GCCGCGGCTG CCCGCGTCGT CGTCGGGAGG
151 GCCCGGGCCG GCAGGGCCCS CVGKTGCCGA GGCGCCAAG CAAGTGCAGT
201 CCCTGCTCGG CGGCGGCACA GAGCTCGTCG GGGGCCCCCG GCGCTGCCCT
251 A

ug278

1 GAATTCGTT CTGAAAAATA GCTACAGTGT ACTTACATAT AATACATAAA
51 TCTTTAAGAA AAAAAGAAAA AAAGGGGAGA TTTAAAAGTA AAGGCCTGAA
101 TGTCTGTTCA ACTAACTAAA TTATAGAAA GCTTCACAGT ACAAGAGCAAG
151 CAACTGACTT AAGACTTGCA CCTAAGGCTG GAGAGATTGC TCAGAGGTTA
201 AGAACACTGA CTGCTCTTCT GCAGGTCCA AGTTCAATTCCAGACAACC
251 ACATAGGTGG CTCACAACCA TCTGTAAACA AGACCTGATG CCCTCTCTG
301 GTGAAGTGAAGA GAAGGCTACA

133/472

ug279

1 GAATTCCGGG GCACCCTCTG CTGAACAGTA GGGGACGGGC CAGGTGGCAG
51 AGTGGCCAGA TTGGGGGGTG AGGCCGTGGA GGAAGGGGTC CCAGCTCCAG
101 CCCCAGGGCCC AGGACTCACC AGGCTTACCA ACACCTGAC ACTGCTCACA
151 CCTGGGAGTT GCTTCTGAGA AGATCTTCTC TTTCATCCAG CCCATCGTGT
201 ATTCTTTCT GCAGGAGGTG TTGACACAGT GTGATGTGTA GAAGGTGCCG
251 TGGGCCTCCA CCAGGTCCCTG GGGCTCCAGC CCCGCCACTC GTTCCAGCGT
301 GTCTATGTTCTGCGTGTAGC AGCGCAGCAG CTAGCCCCTT HTCCTTCAGC
351 AGGCCGGATG AAGTAATTGG CAGA

ug280

1 GAATTCACTT ACACGTCTA TTCCCTGAAC GACCAGCCGG GGCTCCACCT
51 GGGCTTCGAG GCTGCCATTA TGCCCTGCCAC AAGTGACAGC CTTCCCTGGC
101 TACCCAAGGG CACCCACCGA GCACCCCTCAG GTTCAGCTGT GCTCACACAR
151 GGGTGAATGA GCACCCCAGG GSAYCCACTT TTGGGTTCTA CCACTBCGAT
201 TCCCACCA

ug281

1 GAATTGGCA GACAAACAGT GACCAGAACCC AGTGCCTAA GGAAAACAAC
51 CTCTACAAAC CACTGAAGCC ACTTGAAACT CTCGGACGAA TGTGCTGGGT
101 TTCCCACAAAC AGCGACACTT CCCAGAGAGC TACTGACAAG GAGCCCTCAG
151 GACACTGATG TGCACTCCTTG GACTTGCTCA CTCAGGCCCT TGAGTCAGAG
201 CCTGCCATAA TATCCATCCC TAGGCCTGCT AACACACTTC CAGGATAACA
251 GGGAGGAAAT GACATTACA CGTTACCTTT TGTGATCTGC HGCCACCAVC
301 TGTTGGTTTG GAGGACTCTA CAMCAHHTTT CTTVCCCCAG AGATTGGGGA
351 AGATCCCACT AACCTCTGTG TAGCAAAGCG GGGGCTGGTC CTGGTT

134/472

ug282

1 GAATTCCCTGA ACAGAGGTTTC TCAGAACATA TAAAAGATGA AAAGAACACG
51 GAATTCAAC AGAGGTTCAT TCTCAAGAGA GATGATGCCA GTATGGACCG
101 AGATGATAAC CAGGTGAAGA ATGGAAGAGG GTGGGCCTAT AAAGAGAGAA
151 ACTGGGAAGG GAGAAGGATT TGGGGGAATG GAAAAAAATTG AAAATATCTT
201 AAAATGGAAA ACTACACAGC GCTGTTCTCC TGAGTTGTTG GGGCTTCCCA
251 CTGAGGGACTG GCTACAGTTG CCGTGCTCAA GGCCCCAGAG AGACAGGGTG
301 CTGAGGTCTC ATTTGGCCCA CAGCTTTA GGTTGCCTC TAACTTGTA
351 CTACGTTCA TTTTGGACAA ACAAGGTTTC TCCCTGTGTC AGCCTTGATG
401 TAGCTGACTT CAGTGTACATC TCTTGCTCA ACCCCTCCCT GTCTTGCAGA
451 ATTTACACTG GGAGCTACCA AAATAACCAA AAGTTACTTT ATCCCATTTC
501 CACTCTCTA GCCAAGGGCT GGCCTAAAH GCAAAGTTAT GGTCTAATTT
551 AACCAAGTTAC AGAGGTGTGT CTTTGATCCC CTTTG

ug283

1 GCGCGGATTCTTTACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CCGCCCTGGACCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACCTGGCGG AACGGTTGGG GGTTCAGCAG CGGGCGCTTT ACTGGCACTT
201 CAGGAACAAG CGGGCGCTGCTGACGCACT GGCGAAGCC ATGCTGGCGG
251 AGAACATAC GCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCTCATT
301 CTGATCGGGATGCCCGCAG CTCAGGCAG SCTGCTGCC TACMGCCAGC
351 AACACTGGCGG HHCHCGAGCA TGCATCTAGA GGGCCCAAT

135/472

ug284

1 GAATTCTTG CACTATGCGG CTGCTCGKKK CCACGCCACA TGGCTGAATG
51 AATTGCTCCA GATTGCCCTT TCTGAAGAAG ACTGCTGTCT CAAAGACAAC
101 CAGGGATACA CGCCACTGCA CTGGGCGTGT TACAATGGTA ATGAAAAC TG
151 CATAGAGGTA CTTTGGAGC AAAAATGTTT TCGAAAATT ATTGGTAATC
201 CCTTCACTCC ACTGCACTGT GCAATAATAA ATGGTCACGA GAGCTGTGCA
251 TCATTGCTCC TGGKGGCCAT AGATCCCAGC ATTGTCAAGCT GCAGGGATGA
301 CAAAGGCAGG ACAACCCTCC ACTKGGCAGC CTTGGAGAT CATGCGGAGT
351 GCTTGCAGCT GCTTCTGAGA CATGA

ug285

1 GAATTCGGAA AATGAAAGAG CCTTCCTGTC TTCAACATAT TTTTGTGTTGA
51 GCTTGATGTC TGCCAACCAA GTACTCATAG TAGTATCAGT ATCACTGTTA
101 GTATCCACAT CAGTATCTTA ATTCCATGAC TTTCACTCC ACCCAACTAT
151 GGCTCCTCGA TTTCTTGTT TAAGCTTCT GAATTCTTT CCAGTCTGAA
201 ATGCTAATGA TGCCCTCAGA CTCCTCCCT CTTGCCACAT CTCCCTCTT
251 TTTGAACTCG TCTCCCCCTC TGTGTTCAT A CCCATCATACTTTGCTAATT
301 GCTACTTCTG TGTCTTAATC ATAACATTCT TCTTCAGTCT TTAAACAAGA
351 TCTGTCCCAG AGTCTAAATT TAGCCATTCT CACTCTCTGT GTGTCCCATT
401 TGGGCTTGA ATTAAAGTTG TGAGTTCACT GGCTTCATG AGGGGGAGGG
451 TCACAGAATA AAGTTCCAG TGTGTTGCTC TTGAAAGGAG ATCTCCCATA
501 TTCAAATACM CTTCTCCCTA AATATTCTGT TA

136/472

ug286

1 GAATTACCGG ATTTAACAGG AATAGAATGG CACAAGGTTT AATCACCAGG
51 GAAATAAACGC AATCACAACT CGGGCTCGGG CGCTGCGGCC CTGCTCACAC
101 CGACAGAACT CGGGCTACAC AGAGATTGGA AAACCGCTAC ACGCGCTGC
151 CCCTACCTGC GCCCACGGCC ATGCGCCCC ACCTGAACTA AGGCAGAGGC
201 AAGCATCCCG GAGACTTCAC CCCACAAACCT TCTGAGTCTT AGTCTTCVTT
251 CTGTGTACTG TGACAATGTA TGAATCAACT CTTCTCAATT CACTTGAGTC
301 CAAGTCGTAACCTGA

ug287

1 GAATTCGCGC ACTGACAGGC CACTGTRCAC GTGTGGAGGT CAGAGGTCAA
51 TGATAGAACRC CCTCTCCTTC ACCACATAGG TCCTGGAGGT TAAACTCAGG
101 TTGTTAGACT TGGCAACAAG CCCTTGTCC TGCTGARCCA TCTCACTGCM
151 CCRRCCACCCCT TTWCTGAGAG AGGCTCTTCA CTATCCTAAC CTAGGTTACC
201 CTGGAACTTA TGATGCACCC AGGTGCTAGT GTTCACAAC TGGAGGAAAA
251 CCTCAAATTAA GGGTTATGTG AACTGTAACA TAAATTGTA ATTTTAACTA
301 CTTDTTTTC TTACTGGGTT TTGATATAAA DCCTCACTT GT

ug288

1 GAATTGCCCG CGACTAGTCA CTGTTAGAA AGAAAGAAGA AAGGAAAGAC
51 CCAGCAAACCTAAGCTAGTA TGACTATCCA TCTAAAAAAG GCTAGGGAGT
101 TGTGTGGTGT TTGTGTGTAT GTTGTGTGT GTGTGTATGT GTTTATGTA
151 TAAGTCAGT ATTACACAAAT CTTTCACAC TAGCTGCCAT AAAAAGACAC
201 AGACATTACA CAAAACCATA TTGCTTTCA TATGCACTCT CTGCAGTTCC
251 TAGCTCAGGC TCAAAGACAG CCCACAAAAG AGTAAAAGGA ACATGTTGGA
301 AACAGAAGTT GGGGAAGTCG GAGAACCTCT GCAGACTKGA GGTCGAACAT
351 GGAGACACAG ACCTCACAGA AACACACTGG CCAGCTCCTC ARTKCACAAG
401 TCTKCCTAACAG CT

137/472

ug289

1 GAATTCCAAG AGTATTAGAC ATTTTGGAAAG ATTATTGCAT GTGGAGAAT
51 TATGAGTACT GCAGGTTGGA TGGACAGACA CCCCATGATG AGAGACAAGT
101 AAGTATGAAA GGGTGGGAAG TTAAAAAGTG AAGTAAGAAC TTTATTTTT
151 ATATTCCATT AGKTGTACCA ATTTAATATA ATGTTGTAT TGTATTGCAT
201 CAGAGTATTG ATTTTTTT AAAAATATGT ATTTCTTT AAAATTAAT
251 TTGGTGTGAT AGTGTGGC CYAAG

ug290

1 GAATTCCGCC AAGATGGCCG AAGTGGAGCA GAAGAAGAAC CGCACCTTCC
51 GCAAGTTCAC CTACCGTGGC GTAGACCTCG ACCAACTGCT CGACATGTCC
101 TATGAGCAAC TGATGCAGCT GTACAGCGCC CGCCAGAGGA GGCGCCTGAA
151 CCGTGGTCTT CGGCGGAAGC AACACTCACT GCTCAAGCGC TTGAGAAAGG
201 CCAAAAAGGA GGCACCACCC ATGGAGAACG CTGAGGTGGT GAAGACGCAC
251 CTGAGGGACA TGATCATCCT GCCGGAGATG GTGGGTAGCA TGGTGGCGT
301 GTACMACGGC AAGACCTCA ACCAGGTGGA GATCAAACCA GAGATGATCS
351 GCCACTACCT GGGCGAGTTC TCCATCACCT ACAAAACCGT GAAGCAC

ug291

1 GAATTCTGGA GAAGTGGGAG GTGTACTGTA CGGGGAGGGGA CCAGGGGAAG
51 AAGAGGGGGGG TGGAAAGTAA GAAGGGAGGA AAGGCAGGAG GGGGAGAGAG
101 AGATGTTACT GCTTTCTTT CAGCACATAT AAAACAAAGG ACTAAAGAAA
151 CGCATATTAA AAATCCAGTT TCTATATTCA CACCTAACCT ACCTCAAAC
201 CTACTTGTAA AAATCCATCT TCAGCAAATG AATTGTTGG GAAAATGGCC
251 AGGCATCCAT ACACAGAAAG GTTCTCCATC ACCATAAATT AACTCATGGT
301 ATGCTGAATT AATTGTTGAA AATTACTAGA AAATATGTTCA ACAAAACCTGG
351 CAAATTCAAGA CTATGTCACA CACAAATACT CCTTCTTTCTCCCTCCTCC
401 TCCCT

138/472

ug292

1 GAATTCTGGAA TGTTACCGCA CCGCATGCTC TCCCTGCAGC CTTTCTTGCA
51 CACTGGCATG CTGGTCTAGG AGCCGCTATC TATCCTCTCC ACAATGCCCTG
101 CHCGCCTCCT CMVCVAGTTG ACAAGCCAAG CCGCCACTAG CTTCATCAC
151 AACHCGCTCT CCTCCACCAC CCTGGAACCC TTTCCCAGCT TCACCAC
201 ATCCGTATMM CTCCCTTCCTC CTAGCTTCCT CCACCGAACCC GCACTCTTC
251 CTGGGCTATC TTCACCATGC ACTGCTGCTG CHGCTCCTCA GTCCCTCCTA

ug293

1 GAATTCTGTTG GCGAATCATC ATCTCTTCCT CTCGTCTACG CCGTTCCCTCC
51 TCTTGCCTCA ACTGCATTTTC TTTACGTTTC TGCATTCTT GACTGTGAAG
101 TTCCCTCCATG CCCTTAATTTC TTCCCTGGCGT CTCATCAGAT CTTKGCGCAA
151 AAGATTTGCT TGGTGTTCAT GGTAAGCATC TTCCATTCA CTTTCCAATT
201 TGTCTTTAGC ATCCTTCATG TTTTTTCAA CTTGTTCCCT TTGCTGTTT
251 TCCATTTCAT CCAAGGACTT CCATYGTGA GAATATTCAC TCAAATGTGC
301 CATGCTGAGC AAAACGAGGT GGTGTTCTC TCTCCCTTG ATACATTGGA
351 TTCTTCT

ug294

1 GAATTCTTCC CATGCACATG CAACTCTATG GAGACGCTCT CCCTTGACCC
51 TTCTGTAGGCT CTGTGTGTCC TCAGGGCTGCG TGGTGAGCGT CTCGTACCTA
101 CAGAGCCATT TCACAGCTCC ACAAAACAG TTTAAAACAG CAGCACCGCT
151 TCTACTCTAT GCTTCGGTTC AAGTGAGGAA GTGAGGGCAGG TACAATTGCG
201 TCATTCACAC GGCTCTAGTC AGGTAGCTGG AGCAGAGAGG ATGGAGAAC
251 GGCTCATGGG CATCTCTCTG TGCTGAGTAT CCTGGGCTCT TTTCCACAAG
301 GTCTCTCCC TAACAAAATG AGCCCTGGAC AGCTACAGGT GTCATACCCCC
351 AGTGCCGCAC TCCAACAAC TCAACAGCTTG CTAGAACTCM GAAATCAATA
401 AATCAGAATT CAGAGCCTCA TTCCCTCT

139/472

ug295

1 GAATTCTTC TCAGCTGTA CTGATGGCTG CGTCTGAAGC CTTACTCTA
51 ATGGTGCTTA TGTCTGTGTG GGTTGCACCC ATTCTATAGG GCTAGGTGGA
101 ATTGACGTTT GTTCTTACGG TGTTTGTCT ACTTCATTGT ACTGTGACAT
151 GCTTGAATAA GGGAGGGAGC GAATGGATTA CTTACCTGTC AGGATGCCAA
201 GAGCACCTGT GTGGTCTGTC AGCCTGGACC TCAGTGAGCT GCGGTAAGCA
251 GGTTGGCAAC CTCAGGCTCA ACCCATCTGT GAGGTCAATG CATCTTGGAA
301 AACAGAAAAGT GACCTGGCAG CATATTCTT ATTTGTAGTA CTGTTTGTG
351 TTTAGTTGT TGTTGTCCTT TGAGACAGGG TCTCTTAAG TAGCCCTGDC
401 CTSGCCGTGA AATCCACAGA GAAC

ug296

1 GAATTCCACA ATTATCTCAT CAATAATTAC CCTATTTATC TTATTTAAC
51 TAAAAGTCTC ATCACAAACA TTCCCCTGG CACCTTCACC AAAATCACTA
101 ACAACCATAA AAGTAAAAAC CCCTTGAGAA TTAAAATGAA CGAAAATCTA
151 TTTCCCTCATT CATTACCCCA ACAATAATAG GATTCCAAT CGTTGTAGCC
201 ATCATTATAT TTCCCTCAAT CCTATTCCCA TCCTCAAAG CCTAATCAAC
251 AACCGTCTCC ATTCTTCCA ACACTGACTA GTTAAACTTA TTATCAAACA
301 AATAATGCTA ATCCACACAC CAAAAGGACG AACATGAWCH CTAATHATTG
351 TTTCCCTAAT CATATTATT GGATCAACAA ATCTCCTAG

140/472

ug297

1 GAATTCTTT TGGCTTCTTA GGAGGTATAA AGTTCTTCC AAACACTGCT
51 TCTCTTCTTT CTAATCTGC AGGATTTCCA CTTAACCTT CATTGGGAGA
101 TGTTTCAAC TTGGTGCAA TGCCATAGAC ATCTCCATAG CTCTCCTGTA
151 TTTTCCGTAAC TGCACTCGTG GATCTGAGCT CCATGAGAGC TCGCAGCTCT
201 GTAAGCGTAA TTCCAAAGTC TCCATCATGG TTAGCTTCTT TCAAAGAGTT
251 CTTCACACCG CTATACGCAA CTGAGTTGTT GGCCATGTCG CCCATCACAA
301 GGATAATTAA TTAGGAGGAA AATGTTCCC AGAAGAATGA AATTTCACCC
351 TTGAATGTAG ATTTCCAAGC TGAAAATCTT TTAAATAT

ug298

1 GAATTCCCCA AGCTTGTGCA GAGGCCAGGA CCACCTTGT TTCAATGCTCT
51 TGACTGCTGG GAGCAGTGGAGAGAGCTAAGAACAGAGTAGG GGCCCSAGGG
101 CTGGATCTAG CCCAGCCCAG GGSCAAAAAG GAAAAGAGGG GAGTDCTCCC
151 AGCTGGTTTT GGCTTGGTGA AGGCYTGGGC TGGGAGTTCT YGAGAGGCCT
201 CCTYGCTATC TTAGACCACY GGKTCTTTA

ug299

1 GAATTCACAT ATGCAAAGAG ACTGAATGTG GATCCTTGA CTTCTCTTG
51 CTCCCGATCT CTGTGCCTCC TAGTAGAGCA CCCGCCACT GGGCAGCCCA
101 GGAAAGAGCT GGAGACATCA GCCCAGTGGA CTTCTAGGAA GTGAAAAAG
151 CAAAATAAAA CATTTCAGA GAGCGTTCC CAAWCHGCG AGCATTCTCA

141/472

ug300

1 GAATTCCCCT ACATCAAAAAA TTATTTAAGT TGACCAAGAT AAAAAACTGT
51 CTCTAAAAGC TTATATACAT TAGAAGTAGC AAAAATAATA ATAAAGGAAG
101 AGATTAGAAA ACAGCCATCA AATTAGACA TCTACAAGAA TTCTCCAACA
151 TCTGCTCTCT TATCTCGGCA TTTGCTTCGA GCTTTGTTGAGCTTGAA
201 AGCTGCAGAG TTATATAAAAT GCCTTCAAA ACGAGAAATC TTCATGGTTT
251 TAAGTGTGCA GCATCAAGC ATCACAGGGGG GGTCAGCT CAAATACTTT
301 TCGAGGRATT MMWTTTGTCT GCAAGTGGTA CTGCATCCCT GATCCMAGAA

ug301

1 GAATTCGCGG CCGCTTTTT TTTTTTTTT TTTTTTTTT TTTTTTTTT
51 TTTTACTGT TAAAGGATT ATTGCAGTAA TACAACAAAG GTTTAGAAAA
101 CATCTGTGTG ATCAACCTGA CCTGGAAGTT TCAGTCGCAG CAAGGGGGTT
151 CTGACGTTGC AGCTTCCCA ATGCACACCT GAACCCCACC CAATGCTGAC
201 CCCCATACCA TGGTAAGTTA CATTCTTGG TTCTACGTAA GACCATGAAC
251 AGCCCGTGTG GTGCCTCTGA GTGTCTATTAA GTATTACCTT GTTCCAAGAA
301 ATCATTTTA AATGGAAAAC ATGATCAACT TCTATGGCTT TCGGTTAAA
351 AAAAAAAA CAAWCACCA GCTTCA

142/472

ug303

1 GAATTCTCG TTTTGCTGT CACCAGCAAC ATTGCCTCGT CTAACATCTT
51 TGACCGACAC GTTCTTACA TTGAAGCCCA CATTGTCCCC AGGAAGAGCT
101 TCACTCAAAG CTTCATGGTG CATTCAACA GACTTGACTT CAGTTGTTAC
151 ATTGACTGGA GCAAAGGTAA CCACCATGCC AGGCTTGAGA ACACCAGTCT
201 CCACTCGGCC CACAGGGACA GTGCCAATGC CTCCAATTT ATAGACATCC
251 TGGAGGGGCA GTCGCAGGGG CTTGTCAGTT GGACGAGTTG GTGGTAGGAT
301 ACAATCCAAA GCTTCCAGCA GCGTGGTGCC ACTGGCACTG CCATCTTGC
351 GGGACTTTCC ATCCCTTGAA CCAAGGCATA TTAGCACTTG GCTCCAGCAT
401 GTTGTACCA TTCCAACCAG AAATTGGCAC AAATGCTACT GTGTCAGGGT
451 TGTAGCCAAT TTTCTTAATG TAGGTGCTGA C

ug304

1 GAATTCTTT AACTGTATTA CTGAATACCT GAGGTAGTTG AGTAAAAATG
51 CACGTTAAC ACCCTGCCAA CAGCGGCTGG CACTTCCCTT AGGTTATCCA
101 TGTTAGTGT AGAGAAACAG GAGACAACAG CTCTTCTATT CTAATGGCTT
151 AATGTTGTGT TCCTCTGACA ATTCTACTTT GATCCAATTT CAACAATTGG
201 ACTTAGGAAC AATCTAGTT TAAATTATT TGATAAAATTT AGTGAATGTA
251 CCATTTATDC CAATTTCTGG CATTATAGAG GGATATTAAG AAAAATTAGC
301 ACGTTTGT TA TACTTGATA TCACAAGGGGA AGTGCAGAGT TCTCTTCCT
351 TACCCCCACT TTTGTTGTT TGGGGTTTTT GTTTTGTTT TTATTTAGC
401 TGTTTTGT GCATGATACA AGTTWAGATG CCCTGGATGT TTGATTTGG
451 ATGACATGCT ATGTYCTTGT CAGTGGTGGT TCATTGCAG TAAATYGATT
501 GAGGACA

143/472

ug305

1 GAATTCTGGA TATTAATGAG AGACTACGGG TATCGAGATA TCAAGAGTAG
51 GAATTAAATC ATACTCCAA TAAGAGAAC A TATTCCCACA ACAGAAATAC
101 TCATTCCCCT AATTGCAAGG AAGATTTAA GGCAGTGAGT CTCAAACGT
151 AATCTTACCA CCAGCAGCTG TAATGCTGCA AAAATTCTCA GGTTCTACCC
201 AGACCTACTA GATCAGYBCT GGGGGTTAGCTAGGCAGCCT GTGTGCTAAC
251 AAGTCTCTCT GGGGACTCAG GTACACAATG AAGTTAACAG AAAGTGCTTT
301 TCAGGCTGGG GATA CAGTTCHGTTGGAGA ATCTTGCTTA ATATGTTCAA
351 GGCCCTGAGT TTGGTTATCA GCATTACATA AGTGTGTGTT TGTACATGCC
401 TGTCTCTTT GGGAGGTTAGG AGATAAAGG

ug306

1 GHCCCCGGC TAGAGCGGCT TTTTTTTTT TTTTTTTGT TTTTGAGGC
51 AGGGTTTCTC TGTATAGCCC TGGCTATCCT GGAACACTACT CTGTAGACCA
101 GGCTGGCCTC GAACTCAGAA ATCTGCCTGC CTCGCCTCCC CAGTCTGGGA
151 TTAAAGGCGT GCCCACCACT GCCCAGCTTT TTTTTTTTT TTTAATCCTT
201 TTTATTTTT TTAATAGCTA AGTGGTTGA CTGGTTTCA GTGGTAGACC
251 ACGTGGAAAT GAGAATATT ATCA

ug307

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTT TTTTTTTTT TTTCAGAAAG
51 CCAGTTTATT TCTAAGACTT TGTCTAACTT CTTTAGCGG GTACCAATAG
101 TTACCTGCCA TACTCGCACC AAGTTGTCTG TATAGCCAGC AAACAGAGTC
151 TKGCCATCAG CAGACCATGC CAAAGAGGTA CACTGGGGTG GCTCTGCCTT
201 KCTGCTGGTG CTGATAACTT CTTCTCAATT CATCTACAA TGATCTGCC
251 CTCCAAGTYC CAGATCTTGA TGCTGVGCCA TGGCAGC

144/472

ug308

1 GAATTGCTC TCCTTCCCTC GGAACAAACAT TAGCTACCTG GTGCTCTCCA
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTAA TGGCAGCATG
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC
151 TTCCTGTTTG GTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTTGGTACT
201 GGCAGTCCAA GTTCATGCCT GGCAACTGTA CTACAGCAAA AACTCTTAG
251 ACTCTTGGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT
301 GATAAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCATT GAGCAGCGTK
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC
401 ACC

ug309

1 GAATTGGTT ACCATCGTTA AGCCAATCGT TTATGGCAAT GTGCCAGGT
51 ACTTTGGAAA GAAGAGAGAA GAAGACGGGC ACACTCACCA GTGGACTGTG
101 TACGTGAAGC CCTACAGAAA CSAGGATATG TCAGCATATG TGAAGAAGAT
151 CCAGTTAAA TTACACGAAA GCTACGGCAA TCCTCTAAGA GTCGTACCA
201 AGCCTCCATA TGAAATCACA GAAACARGAT G

ug310

1 GAATTGGCC ATCTGGCTTA GGTGCCTTAC ACTGGTTGCA TTCATTCTC
51 CAAGAGAAGT TCATGTTCTC ACATGTAGGA TTAGGACACT TCCAGTCTCC
101 AGCTCGTTGC TGTCCCTCCAC CTCCACCACC TCCACTGGGG AATCCTCCCC
151 GGCCACCACC ACCACTGCCA CCTCCTCCAT AGCCTCCACG GCCCATGGGT
201 CCTCCTCGVC CTCGGCCTCM VCGACCATT CCACCACCCC GATTGAAGTC
251 AGCTCGGCGG GTAGCAAATG AAAACTTAA TAGGATTCCC AGAGAATTCT
301 TTACCATCAA AACMAGTCGA T

145/472

ug311

1 GAATTGGCG GCGTTATT GGAGCAAATT CAGCTCCGG AGCTGGACGG
51 TTGAATGCAG GAGGAGTTCC ACCAATTGCT CCAATTCTT CCATTGTTGC
101 AGCTTGGCCA AAACGTCAG TTGTTGGTGG GGTCAATCCA AGGGTTCCAT
151 CTGGCATCAT AGTGGCAGGT CCTGGAGGAG CTGGAGTACC AGGTGGCACA
201 GGAGCAGGGG GCATCGGCC TCTATTGTT ATGCCCATAG CACCTCCAT
251 AGCCATTGG CCCATCCGTA TCTCTVTTC TCTCGCATCA GGGAAAGGTT
301 CCTTGAATCC TTCCWGCCT

ug312

1 GAATTCTCC ATATTGTAT CATGTAGCTG TGCTTTAGC TTTTCATTTT
51 CAGCTAAAAT TTGTTCATAA AGCTTTTGA AGTCAGTTGA GTCACTCCTT
101 TCTAGCCTGC TACTGTAAGG TTTCTGTCT TCTAAGTAAC TGTATGAAGC
151 AGAGCGACCC AGCAAGGAAT CATAACGATC ACTTGATGAT GTGGAACCTGC
201 TGTCTACCT GGAAACAGAA TCCGTCTAGA AAGTAAAAAA AAAAAAAAAT
251 TTCKGSCCKC HCGADCAGGG AATTCCACCA CACTGG

ug313

1 GAATTCCCAG TTTCTGGCTG TTATAAATAA GGCTGCTATG AACATACTGG
51 AGAATGTGTC CTTATTGCAA GTTGAACAT CTTCTGGTA TTTGTCCAGG
101 AGAGGAATTCTGGATCTTC TGGTGGTGT TTTTTCCAA TTTCTGAAG
151 AACTGCCAGG CTGATTTCCA GAGTGCTTGT ATTAGCTTGC AATCCCACCA
201 ACAATGGAGT GTTTCTTTT CTCCACATCC TCGCCAGCAT CTGCTCTCAC
251 CTGAGTTTT GAHCTTAGAC ATTATGACYG GTGTGAGGTG GAATCTCAGG
301 GTTGTAA HGTGCATTYC CYTGATAATT AAGGATGTTG ACMTTCAGG
351 TGCTTCTCAG CCATTCAAGTA TTCGTCAAGG

146/472

ug314

1 GAATTCGACA AACAGTAAGA CTTGACTGGA ATATCTAGTT ACAGAACATC
51 CCAGGGATT CTTGGTCTT ATCATTTAA GGAAAAAGAA AAGCAACGGC
101 AAGCAGAATT ACAGGAGAAH GAAATCGCAG AAAAAAAAGTT TAAAGAATGG
151 TTGGAAAATG CAAAAAATAA ACCTCGTYCG CTGCAAAGAG CTATGGTTAC
201 TCCAGTGGAA ACTTACAGGT TGGAATTAC GTCTGTGCTT ACATAAATAT
251 GGTTGCAGA AGCAAATGAT ATATATAGAA ATGTATAAAA GTAATTTTC
301 TTTGAAATTAT TATTTTCT

ug315

1 GCGCTAGGCG AGCGCGCCTG CCTGAAGCTG CGCATTCCCG ATCAGAAATG
51 ACCCAGTCGT CGTCCTCTCG GCACCGAACATC GTATGATTCT CCSCCAGCAT
101 GCTT

ug316

1 GCGGTAGGCG AGCGCGCCTG CCCTGAAGCT GCGCATTCCC GATCAGAAAT
51 ACCCAGTCGT CGTHTCTCTC CCCGAATCGT ATATTCT

ug317

1 GAATTCCGCT GCCTCAAGCT GGCTTAAGTC CTGCTGAGAT TCAGCAACTA
51 TGGAAAGAAG TGACTGGAGT CCATAGTATG GAAGACAAACG GCATCAAGCA
101 TGGAGGGCTA GACCTCACGA CTAACAATTCTC CTCCTCGACT ACCTCCTCCA
151 CCACGTCCAA AGCATCTACC ACCCATCACCA CATCATTCCA TAGTGAACGG
201 ACAGTCTTCA GTTCTGAATG CAAGGCGGGA CAGCTCATCA CATGAGGAGA
251 CTGGGGCCTC

147/472

ug318

1 GAATTCCGAG GCCAGCGCCG CGGTGGAGAA GCTAGTTCC GGCGTGCAGC
51 AGGCCGCCGA CTTCGCCGAG CAGTTCGTT CCTACTCGGA GAGCGAGAAG
101 CAATGGAAAG MGCGCATGGA GTTCATCCTG CCACCTGCCT GACTACCGAG
151 ACCCACCCGA CGG

ug320

1 GAATTCGTAC AGTCACCAAA GTCACATTTC AGAGGAAATC TTAATAGATC
51 TTCTCACAGC CAAAAATGCA AGAACGACAC ATTTTATAGT TTTAAGTTG
101 TATCTCAGAG CCTCAGTCCA TACAGAACAA AGTCAGGCCA ACAAATCAG
151 TTCAAGGAAA ACAAAGTTA ATTTGCTTGG GCTTCCTAGC TAACACTTGG
201 CTATTTCCC ACTCAGGTGG AGGAGTGTGT AATTCTGCCA GTGCCCGGG
251 GCTGAGCACC CAGGCTAAAA CACACAAAAA AACACAAGTT AGGTCCCTGGT
301 GCTGAGAAAG TTACAGTTAG AGCGGAGGCT GCTGACAGCC TGGAGTTCC
351 GGAATGATCA CAACTCCAGC AGCACACCT TGACTTACAA TTGRCAGCTC
401 TGCTCTACTC TGGGGTCTGA AAACCCAGA GAGGCGCAA GCTGACTCTA
451 AGAGGCAAGG TCTGTCTTGC TGTTGTTCTA TTGCCACGAA GAGACACCAT
501 GACCAAGGCA ACTTGAAAG CATTAAATTG GGGGGKTCAT GGATCCAAGG
551 GG

148/472

ug321

1 GAATTCTGG AACTCACTCT GTAGATGAAG ACTGTAGCAG AACTCAGAGA
51 CCCACCTGCC TCTGCCTCTC AAGTACTGGG ACTAAAGGCA TGCAGGACTA
101 TTGCACTGCT GAGTTTGTT TTCTTTTCT TTCTTTTTT TTTTTTTTGG
151 TTTTCAAGA CAGGGTTCT CTTATAGCC CTGGCTGTCC TGGAACTCAC
201 TTTGTAGACC AGGCTGGCCT CGAACTCAGA AATACGCCTG CCTCTGCCTC
251 TGCCCTCCGA GTGCTGGGAT TAAAGGCATT CGCCACACG CCCGGCCTTC
301 TTTTTTAAG ATTAAAAGTA AATTACTTT ATTAAATTAA AGTTATGTGT
351 GTGTTTTCT CTAGGTATGT ACATAAGAAT GCAGATGCC ACACAGGTCA
401 GAGGCATCAG ATCCTCCTGG AGTTAAWGCT ACAA

ug322

1 GAATTCTGAG TGAGCTGACC CAAGGCCAT TGGGCTCAGA CCTTGCTGAA
51 TATGCTTGGT GACACCTAAA CCTGCGCGCT GTTCTCATTT TGGAACTGTG
101 TCTGGCTTT GCTTTCCCT CCGCACAGGA AACTATCATG AAATTCCCTC
151 CTTTGCTTG GTGCCAAAGC TTCATCTCAT CCATTCTTC AGCAGCCATT
201 TCCTGAGTGT CTGCACTGTA CTGGGCCTGG TTAAAGGCCA GGGAAAAAGC
251 AGATGTTGGA AAAGAACGCCT GCATACTTCC GTAGAATGTA AGATGTAAC
301 CAGAGTTGAG AAAAGGGAGG GGTGACATTT GTAACTTTT CCCTGCTGT
351 ACAGTCTACA ATAAATTATA CTACATAAAA TTCTTTAACCA GTATTCTTA
401 ATGTAGCTGA CCCATTAGGA TGGAAA

149/472

ug323

1 GAATTGCTC CAACCATTCT GGTAGGAAA GAGTGTGAGC ATGCTTCCTG
51 ACAACTGCTA GAAAAACTGT GAGTTGAGTA CACTGCTCCT CTTTATTATG
101 GCCCAAACCT CTGACCTTCG GTTCTTTG CAAGGAAC TG AAGAAAGAGC
151 TGAGACCTTT CTTATTCTGT GGAATGTCAG AGGAAGATCA CATGACAAAG
201 GCTGAACACT TTTAGCTTG TTGTGTACTA AGTCCAGTGT ATCAAATAAG
251 AAAATAACTT ACTCTGGCTG CTGTAGGGTG GGAGATGAGT ATCATGGATT
301 CTAGACAAAG TGACCAACTC TCTCTCATAT ACAAAVCACA CTCTGGGGGR
351 CTCCCAGC GATCTTCCTG AAAGCTAGAC TTCTGTTAAG TAACTCCAAC
401 AACACAGTCT CTTBGGTGAA TATGTAAGTT TTTTAAAT ATTTTAAGA
451 AC

ug324

1 GAATTCCGC CATTCCAGG AGATTGCTGA GCATCTCAC AAAAACAGA
51 ACTTCCAAG TGCTGAGTAG GATCACCACCA TAAATAATAC TCTTCTTGT
101 CAAATTGCTC CATAGAGTCA CAGTACACTT CACTATCTGA ATCACTTGT
151 AAATGGTGTAACTTGAGC ATCTTCACTG GGATCTTCAT TTCTATCTTGT
201 GTGAGCACAG ACAATGGTGT TCTGTCTGCT GAGAGCTCTC ATCTCCAGGC
251 TTTTCATCTT CACVCTTCTG GTGCCCGGGGA AGAACAGTA TGAATGTCAC
301 TCTGTATATC CTGAACAAAG CTACCTTAT AGCCATTGTA ACAATGATT
351 CCAAATTCTT ATCTCTGATT YCYTCAGCTT

150/472

ug325

1 GAATTCCCGG CCGTCCCTCT TAATCATGGC CTCAGTTCCG AAAACCAACW
51 AAATAGAACY GCGGTCTTAT TCCATTATTCT CTAGCTGC GG TATCCAGGCG
101 GCTCGGGCCT GCTTGAAACA CTCTAATTT TTCAAAGTAA WCKCTTCGGG
151 CCCCGCGGGGA CACTCAGCTA AGAGCATCGA GGGGGCKCCG AGAGGCAAGG
201 GGCGGGGACK GKCGGTGACT CGCCTYKCKG HKGACCGCYC KCTCCCCAAG
251 ATCCAATAC GAGCTTTTA ACTGCAGCAA CTTTAATATA CCTATTGGWG
301 CTGGAATT

ug326

1 GAATTCAGAC TTTGTCTAA AACTTTAGC GGGTACCAAT AGTTACCTGC
51 CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG TCTGGCCATC
101 AGCAGACCACGCCAAAGAGG TACACTGGGG TGCTCTGCC TTGCTGCTGG
151 TGCTGATAAC TTCTTGCTTC AATTCTATCA CAATGATCTT GCCCTCCAAG
201 TCCCAGATCT TGATGCTGGG CCAGTGGCAG CGCAGAGCCA GTAGCGGTTG
251 GGGCTGAAGC ACAAGGCATT GATGATGTCC CCACCATCTA AAGTGTAGAG
301 GTGCTTGCTTC ATTGAGAT CCCACAGCAT AGCCTGGCCA TCCTTGCTC
351 CAGAAGCACA GAGGGATCCA TCTGGAGAGA CAGTCAGTGT GTTCAGGTAG
401 CCAGTKTKGG CCAATGTTGG TTGGGTCTTT AGCTGCAGT TAGCCAGATT
451 CCACACCTTG ACCAGCTTAKK TCCCATCCG

151/472

ug327

1 GCGCGGATTCTTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CCGCCCWGGAA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAAACTGGCGG AACGGTTGGG GGTCAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACAAG CGGGCGCTGC TCGACGCACT GGCGAAGCC ATGCTGGCGG
251 AGAACATAC GCATTGGTG CCGAGAGCCG ACGACGACTG GCGCTCATT
301 CTGATCGGGA ATCCCGCAGCTTCAGGCAGG CGCTGCTCGC CTACCGCCAG
351 CACACTGGCG GCCTCGAGCA TGCATCTAGA GGGCCAATT CGCCCTATAG
401 TGAGTCGTAT TACAATTAC TGGCCGTCGT TTTACAACGT CGTGACTIONGGG
451 AAAACCCCTGG CGTTACCCAA CTTAA

ug328

1 GAATTCACTA ACTGTGCTGT GATAGGATGT AGGGGGTGAA GTAAGAGGGT
51 AAGCGCCTGA TGTCCCTGGC TGCTTGAA ATGGCTGTTG CTGAGGTGGC
101 TGGAGCTGTG ATATTAAAGA GTCCATCATG TCACCTCCTA TAGGAGAAGG
151 AGGGTTATCA TCCTCATTAA CAGATCTTCT CCGAGCATCT TGATTGCTAT
201 CAACAAACAT GTTCAGGAAA GTCTTAATC CTGGTGCAGG ATAGAACCT
251 TCAACTAACT TGCTGTTATC AAAAAGACTA TAGGCACCGT CCCGTATTGC
301 CACGACGCCT CGACTACGGC AGTATATGTC AATGCAGTAC ATGTTCTGA
351 AGGCCAGTCT GATGTGGGTG GATGATTGTG GTAAAATGGA GAAACCCYGG
401 TAGGCSGTGT TAGTTCTCTG GTCAAGCCCCA ACATTGGAAC AGTAGGGAGT
451 TTGTTGATAG CATTAAATGG TGCCTGAGTA TCAAACAAAA CCTGTAATAA
501 CTGACCACAT TTGGTGTCTT GTTGAACAT TTCTGAAAGT TGA

152/472

ug329

1 GAATTGGCG GAGGC GGCG CGAGG C GGGCGAGC GAGCGGGACC
51 CAGACGGGG CCGCGCCGCC GGCGGCTGCG GTTCTGTCG GGCCATCTGC
101 TGGGCCGGCC CCAGGAGGCT CCGAGTACCA ATGAGTGCAA AGCGCGGAGA
151 GCCCGTCTGG CGGCCGGGC GTCGCCGCC GCTACTCCTG CCGCACCA
201 GTCGGGCACC ATCCCCAAGA AGCGGAAGA AGTTATGAAA TGGAATGGAT
251 GGGGCTACAA TGATTCCAAG TTCTTATTGA ATAAGAAGGG CCAGGTTGAG
301 CTGACTGGGA AAAGGTACCC ACTTAGTGGCTTGGTTTAC CAACTTGAG
351 AGACTGGATC CAAAACACCC TTGGAGTAGT CTGGAGCATA AACTACCTC
401 TAAAACATC

ug330

1 GAATTCGAAC ATTTGCTCAG GTATGAGGCA GGGTGAGAAA GCTGGGTGAG
51 CCTGCATCTA CAAACTGAGT GAATTATTT CHHTCTGTGT GTGAATGTCA
101 GCATGACACC CTGAGTAGAA SCCAGACCC GTCCCCTAT

ug331

1 GAATTCCCTCA AATATCTATA TAATAATTAA CAACCGTTGT TGTGGAGATA
51 GGATCTCACT ACACAGTGCA CGATGCCCTC AAAATTATGT AGCTGAGGCT
101 AGTCTTAGCC TTCCAGGCGC TGGGGTTACA GATATGTGCT ATTACAACCA
151 GGCTTGGCTT ATACTCTTAG TATGCAAACA TAGTCTTCAT ATTTTATAT
201 ACCTAACATGCA TGCCTATTAT ACAATACACA AAATCATGCA AAGCTATCAC
251 AAAATTCTGT AGTAGAAACA ATTGATTAA TGCCAACTGT ATGTCTCACA
301 TAACTCAATT CCTTCTTTA AGAATGAAGT CTTCAATTCA AAGTGATAAT
351 TCTATTAAAA CTAGAACAA CACAGTAAAA AT

153/472

ug332

1 GAATTCTGC TATAATAACC TAAGCTATTA AGTCACAACA GTTTAGCTT
51 TTCTTTTAT AAGAGTTAA GATTTATTT ATTTTATTT TATGTGTATA
101 AGTATTTGTC TGTGCATCAT GTACATGCCT GGTGCCATA AAGGCAAGAA
151 GGGGACACTG GAATTACATC CCTGTAATTG AACAGGGTCC TCTGTAAGAG
201 CAGACAGTGC TTATAATTGT GAAGTCCTAT CTGTTAGVCC CCAGTTTG
251 GTTTCAAAA GGGGTAACTCTAAAAAATAT TATARAACAG AACATGCTCA
301 AAATAAAATG TTGGCAAAA

ug333

1 GAATTCGATG TTTCGTCAAGG AGAGATGAGG TAACAAACTA TTGATAACAA
51 CATAGCCATA AGAGACCAAT ACTGACTTCA AGACTCAAAA GAACACAGAC
101 CCTAAAATCA CAGCTTCAG GCAGTGTGTT TCTAGACCAC GGGGCAACTG
151 TACMGCACAA AGCAGCATGT GACAAGAACATCATTGACA AGGCAGTTCT
201 CATGGGGGAT GGAGCAGGCT AGTGGGGGTC GGGGTCACTG CYGGAAAMCT
251 TCAGACCGCA T

154/472

ug334

1 GAATTCGCGT CGGACCTGCG GAGCCCAGGA TGGTGGTGC CGAGAGCGAG
51 CAGTTCCCTGA CGGAGCTGAC CAGGCTCTTC CAGAAGTGCC GCTCGTCGGG
101 CAGCGTGTTC ATCACCCCTCA AGAAAATATGA CGGTCGCACC AACCTATCC
151 CGAGGAAGAG TTCTGTGGAG GCCCTCGAGC CTGCAGAAAA CAAGTGTCTG
201 TTGAGAGCCA CGGATGGGAA AAGGAAGATC AGCACC GTGG TGAGCTCCAA
251 AGAAAGTGAAC AAGTTTCAGA TGGCCTATTG AAATCTACTG AGAGCCAACA
301 TGGACGGGCT GAAGAAGAGG GACAAGAAGA ACAAGAGTAA GAAGAGCAAA
351 CCAGCACAGT GACAGGGCGTT GGCTGCTACC AACCAAGCTGC ACAAGTGCAT
401 TTTTCCTCTG TTTGCTGCTT TCAGCACCTC TGTATGTAAC TGTTCCACG
451 GAAGGGTCCT TTAAGAGAGA AGGACTGGGA TGGGCATGGG CTAGTTGTBG
501 TAAGACGCCA KTTTTSATTG TGCYGTGTGG GCTGGATATT CTTAGATTCC
551 AGCCGTA

ug335

1 GAATTCCATT GGCAATTCT TTTCCAATT CCATAACTT ATTCAATTCC
51 AAAGAGAGCT GGTTTCATC AATAGGCAAA CTTTGTTCCT GACGAATCAG
101 TCTGGCCACA GAAATCATAA AATCCACATA TGCTGTCAA GCCTTTAT
151 ATA WTCCAGT GCACTCAGAC GCATGCCCYC AMGCATAGTT ACAAC

ug336

1 GAATTCCATT AGAATTAAAA TGAACGAAAA TCTATTSCC TCATTCACTA
51 CCCAACAAAT AATAGGATTG CCAATCGTTG TAGCCATCAT TATATTCCCT
101 TCAATCCTAT TCCCACCTC AAAACGCCTA ATCAACAACC GTCTCCATTG
151 TTTCCAACAC TGACTAGTTA AACTTATTAT CAAACAAATA ATGCTAATCC
201 ACACACCAAA AGGGACGAAC ATGAACCCCTA ATAATTGTTT CCCTAATCAT
251 ATTTATTGGA TCAACAAATC TCCTAGGCCT TTTACCAAC

155/472

ug337

1 GAATTCTTG TGTGCCTGGT CAGCTCCATA CACCCAGCAA TTCACCTGTA
51 AGATCTGTCC TGCTTTGGAG GCCGTGGAGT GGAGTCTTCC TTTTCAGGA
101 TGAAAGAACGT TGGCTTCTCC TAAAGACAAC AGTCTCAGAC AGGTCTCAAG
151 ATTCCCTGTT CTCACACTTGT AATGGGTCA ACTGAGATCT TTCCGTC

ug338

1 GAATTCTGGA GTTCCGCAGC TTGACCCACA CATTGCCAG AGGTGAGAAA
51 GTGGCCGCTG AGGTCTTGCT GCTTCCCTGA GGCCGGTTCC TTCACGAGAG
101 AGCAGTAGTC GTTCTCAAGG TGGGGAGCGA AGGGGCTGCT GGCCCCGCTG
151 CGGCHCGCCA CAGGACAGAC CATCGGAAGA GCTGTYVGCC TCAGAGTTAA
201 GGGATGGCTT CTTGGGGCCC AGGCGGGAG

ug339

1 GAATTCATGG AACTACTCCA TCAATAGGCA AAGTGGCATT GATTTTATC
51 TCDATTT

ug340

1 GAATTCCCAA AAGTGAATA AGATGTCCAC ATTAAAAAAA TAAAGCCTAC
51 AAAAAGTTCTGGAGCTAAA AAAATTATTC ATATGGCACA ATGTGATCTC
101 CAAGGTCCAA AATATTGAAA TGAGATCCGT GTAAGCATCC TGTCTGCTTT
151 TCAATGCAGC ACTAACTTTA CTGAGGTGAA ATCACAATT AGTTCTTCAG
201 TCAACAAAGTG GACACAAATG TTTTCTACA GTTATTAAAA ACAGGAGATC
251 AAGTTGAATG TDCCGAAATG ATTCTTCAG TTGGATATT TAGTATCTG
301 AAGAAAATTA GTDAAGGGAT ACTTGTGTT TCCATAGCYT GATAGACCAA
351 AACAAA

156/472

ug341

1 GAATTCGCAC GCAAGCCCTA TCATACCACA GGAAACAGAG CACAAGAGAA
51 GTGTACAGTG GAGTGGGCAT SCGTAAAAAG ATGGTGTTC CAAGCAGAAG
101 TATATGCAAA GRCTTGCTA AACAGAAACT GAACAGATAG CTTATACCAT
151 TAGATCAGAT TTTGAAGGGT TTTAGGATGC ATGGAGATGG GCCACTAGGG
201 TTGACTATGA CCGAGGTCAG GTATTATGTG TTTACTTAAG ATTCCCTTCT
251 DSCGATGAGA ATGCATTCTG ACTCCAGCAT GCACCAGGTG CGCTTDCTDC
301 CCAGADCTGG GATTGCCAAT TCCAAGTGTK CCTAGCCTTG AGGATTGACC
351 TTGGSCCTGA GCATAGCCTG T

ug342

1 GAATTWCAGC TCWCHCTTCC TCAGTHCTT CAAAGTCACA GGAACCTGGC
51 AATTCCCTT TTCATTCCCC CTCCCACCTTC CCTGGTAAGT HCCTCTCGGA
101 ATATCACAAG AGTTCCAGA HCTGGTCGG ATCACCTTC CTGTAATTAA
151 TTAATTATGA GAAGAACAG ACAGTACAAT AGATCTGATA AGATGTAGCA
201 TTCTTGTAA GATTAAACAA TACATTATC MAAYHGTATC AGAACAAATT
251 AACATAATAT TTAATCTTAT MMVCACCAAT AACACAGGA ATTGTTATT
301 CCAARDGGAG AGTCTTGTAA GAA

ug343

1 GAATTCTGTT TATGTAGCAT ATAAATAATA TAAAATTAAA CATAAAGAAC
51 TTAGTATTT ATTGTAAGTG AAAAAAAATAA AACTAGAATT GTCATATTAA
101 TGGTCCTGCA TATCAAATAA TTTTACCAA GTCTCTGTAA TACATACTAA
151 CAGCATTAGA CACAGGGAAA CAATCAAGAT GATCAAATT ATAACAAAAA
201 ACTGTATTGC TAACATTGTA ACATTTATA AGAGTTAATT GAATAGTGAC
251 CAAAGTTCTC CCTTAACCCCT TCCATCTGAT GACTGTGAGA TTGTTTTTA
301 AGTTGCTGT AAAAGAAGAC TTGCCTGGC CWMCTATACC TYCAACCAAT
351 CTATAGAATT CAGAGGACCA GGAGGGTAC

157/472

ug344

1 GAATTCCAAC AGTTTGAAA GTAATTAAGA GAAATCACAA ACAGTTAATT
51 CTGTCCTCCA AAT

ug345

1 GAATTCTTT AATACAAGTT ATTGTGAAG AAATCACTGG AGGGAGAAAA
51 AAAAAATCTT CTTCAWCCA CAACACTAA AAAGTAACAC ATGAAAGGAG
101 AAATCTGGTA ACAAGCAGGA TAGACTCAT TCTAGTAAAA AGAAATAATG
151 TTTCAAAACA CAATCTAAAG CAGGCTTCCA TTAGCAAAGA AAT

ug346

1 GAATTCGACG GCCGTTTTT TTTTTTTTTT TTTTTTTTTC TTTTCTTTTC
51 TTTTCTCTTC TCTTCTCTTS TCTTCTCTTC TCTTTCTTTTC TTTCTTTCTT
101 TCTTTCTTTT TTGGTTTTTT TCGAGACAGG GTTTCTTGT ATAGCCTGGC
151 TGTCTGGACT CACTCTGTAG ACAGGBGGCT CAAACTCAGA AATCTGCTGC
201 TCTGCTGTTG AGTGCTGGGA TAAAGGCGTG CCACACACTC GGCTGAGAYC
251 TG

ug347

1 GAATTCCGGAC AACAACTCCC ACAAGAAGAA CATCTCGAG AAACCCTTCA
51 GGCTCGCTAC GTGCGTGTCC TTCCAGTSTC CTGGCATAAC CGCATCACCC
101 TGC

ug348

1 GAATTCCAGA TCCCATTACA GATGGTTGTG AGCCACCATG TGGTTGTTGG
51 AAATTGAACT CAGGACCTCT GGAAGAGCAG TCAGTGCTCT TAACCATCTC
101 CCCAGCCCAT GTCTTACATG TTTRTTAAA TGAGGAACGA TAGTGTGGTS
151 ATT

158/472

ug349

1 GCGTTAGGCG AGCAGCGCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TCGCTCGAGC AGCGCCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTGCG
201 TGTYGTCAGA CCGTCTCCCG ACCTCGTTCA ACAGGTCCAG GGCBGBACGG
251 ATCACTGTAT TCGGCTGCAA CTTTGTATG CTTGACACTT TATCACTGAT
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGA

ug350

1 GAATTCTTTT TTTTTTTTTT TTTAAAGACT TATTTATTAT TAAATATAAG
51 GACACTGTAA CTGTCTTAG ACACACCAGA AGAGGGTGTC AGATCTCATT
101 ACCAATGGTT GTGAGCCACC ATGTGGTTGC TGGGATTGTA ACTCAGTATC
151 TTCAGAAGAG CAGTCAGTGC TCTAACCACT TGAGCCAAT CTCCAGCCCC
201 CCAAAAGACA GCCAGCATT AACTGAGCTT AGAGCCAGCC TGGTTATGTA
251 TCAAGTCTGT GTCTAAAAT GAAAAGTGAA A

ug351

1 GAATTCTTC AACTCCAATC TCTGACTTTR CTCATTGCTT CTCAGCTTCA
51 AAATGCAAGC ACAGACTACA GCTAACTGAG AACTGGCTCC ACTCAGGGGC
101 TATGGCGCAG GAGCCCTGAC GCATGCCTCC GCVGCTGCC CAGGCTCTTA
151 CCAGCAGGTA GTGCTGGCGG TGTTCAGCTG CTGCCTCATG CTGGGCAGGC
201 TCTKCTGCCT GTGCAACATG TCTGACGGAA GTTAAGGCCT CCAGTCTAAC
251 AAGGTTTCTC AC

159/472

ug352

1 GAATTCTTT TTTTAATGG CTTTTGTAA CATCGCTGCA GGAAGCGGGT
51 TTCTTTGTAA TCTTTCTTT CTAAGAGAAG GTATCTCCCT GGTGCAATAG
101 CTCGGCACCG CCGGCGGGGG CCTCTGACA CACCCCAGCC CTGGGCTCCT
151 CTGGCCTCCA AATCATTCAAG GATGGTGAGG GAGGATGGGA AGGAGGGGGG
201 AGGGGGACAG GTAAATCGCA TCTGCGCCA CTTCTCTCTC TACCTCCTT
251 TGGAGAACCA GCCAGCCTGG ACCACTTCT CCATCTTAGG ACAACTTGAG
301 GCTCCTTGCT CTCATCTGTG CTTCAAGAGAA TTCCTTCCC TCCHGGGTT
351 TGTCTGGTTTC TCAGCAGGGT TCCCAGGCCA CTGTGCAGTG GCATCTAGC

ug353

1 GAATTGGGG GAGAAAGAGA GGGAGGGAGA AAGAGAGAGA GAGAGAGAGA
51 GAGATCTTGT TCTCCTGGCA CAATATTAAC TGTTATAAT TAAGCTAAAA
101 ACTTGTCTG GTATTTATG ACATCAGGGAA ATTCTTCC TCTCTAGGCA
151 GATTGCCAAA AACAACTAGA AGCTAAATGC CTGTGCCTTC TGCTTCTACG
201 ACACACCACT CCGTCTTGTT CAGTTCAAC TAGCGTCGCT CTAAAAGGAC
251 AAAAAACTTC TTGTTTTCT AAATAAAACA TAAATGGCCC AGAATTGAA
301 TTGCCGATCT TAAAATTTA AGTGAUTGAA GATTCTATT ATTCTGGCAA
351 TAAAATCATT AAAAACAAAA CAGGTTGCAT AAGACTTTA AACAAATTCA
401 TCACAGGCAT GAGAATTAA GGTTCTTT AAAATATAAA ATGCTAAAAC
451 AATAAGTCTA ACAGGAGAAT ATGAATAATA CMATATTCTA AGAAAAAAAC
501 CCACAAAGAC AAACATGACA TTTCATTCA AGCTCATTCA AATAAACCAA
551 GGATTAAACC TTAGTTTAA CCTGTTAATT TTCCTTTTR YTTTAGTATG
601 TCTGATGTCD CATGTACGRT ARCCAGAAGG CC

160/472

ug354

1 GAATTCAACCG GCTCGACGGC CGCTTTTTT TTTTTTTTT TACATAAAAAA
51 GACTTTATTT GCAGGGGAGC AGGAATTAA TCAAACAAGC CAAATCCCAT
101 GTCGTACATCC GACTCCTCGG ACTCCTCCTT CTTCTCATCT TTCTTCTCCT
151 CTGCTGCAGC GGGGGCAGAA CCAGCAGCAG GTGCTGCAGA GCCAGGGCA
201 GCAGAAAACAG CCACAGCCCC ACCAGCAGGC ACACTGGCCA GCTTGCCAAC
251 ACCCTGACGA TGACATCCTC AATGTTCTTT CCATTCAAGCT CACTGATGAC
301 CTTGTTGAGC CGATCATCGT CCGCTTCGAT GCCCACCTGT CTAGTATTTT
351 CTTGATGTCT TTGGCACTAG GAGAGG

ug355

1 GAATTCRGCC GCTTTDRRTT TTTCATTACG GTAAACAGGA ATATATTCA
51 ATGCTAACATRC CTCCCTTGAC CAGAAATGGA ACATGCTGAA GGATGAAGAC
101 AAGGATCTTT DVCCCTTGCT TGAGGTACCH GARCTGGTGA CGTTCAAGTTA
151 TTCTAACAGT GTCATTCAAGT CACAGTCATG GCCTGAACCA GAATGTGTGT
201 GTGTGGTAAA AATATCTGTC TTCACAACAG TTTCTGGTGC RTTGTAGAAT
251 AGCACATAAC TGCTTCTRC AGTTTGTDCT TTGACAGTAT AATGTATGTT
301 GGTCAATATT AACCCTAACATC ATCTCTCCCT CTAACATTGC AACACCCCC

161/472

ug356

1 GAATTCGCAC TTTTGATGTG TCAATCCTCA CTATTGAGGA TGGAATTTT
51 GAGGTCAAAT CAACAGCTGG AGACACCCAC TTAGGTGGAG AGATTTGAC
101 AACCGAATGG TCAATCATT CATTGCTGAG TTCAAGCGAA AGCACAAGAA
151 AGACATCAGT GAGAACAAAGA GAGCTGTCCG CCGTCTCCGC ACGGCCCTGCG
201 AGCGGCCAAG CGCACCCCTCT CCTCCAGCAC CCAGGCCAGT ATTGAGATTG
251 ATTCTCTCTA TGAGGGAATT GACTTCTATA CCTCCATTAC CCGGGCTCGA
301 TTTGAGGGAGT TGAATGCTGA CCTGTTCCGT GGCACACTGG ACCCTGTAGA
351 GAAGGCCCTT CGAGATGCCA AGCTGGACAA GTACAGATC CATGATATTG
401 TCTTGGTGGG TGGTTCTACC AGAATYCCA AGATTAAAAA CTTCTGCAAG
451 ACTTCTCAA TGGAAAAG

ug357

1 GAATTCGTCT TCAACGGCTT CTGTAATCT CGGTGACCCC ACAAGGCGTA
51 CTGAAGGAGA TTACTTATCG TACAGAGAGT TACATTCAAT GGGAAAGAACT
101 CCAGTCATGT CAGGATCACA GAGACCTCTT TCTGCACGAG CGTACAGCAT
151 CGATGGCCA AATACATCCA GCCCTCAGAG TGCCCGTCCC TCTATTAATG
201 AAATACCAGA GAGAACTATG TCAGTTAGTG ATTTCAATT CTCACGGACT
251 AGTCCTCAA AAAGACAAA TACAAGGGTC GGGTCTGAAC ATTCTCTGTT
301 AGATCCTCCA GGAAAAGCA AGGTTCTCA TGACTGGCGG GACAGTACTA
351 CGACACATTG AGGCCAAAAAA GTTAGAAAAG G

ug358

1 GAATTCCCCG ACTCGAGCGG CCGTTTTTT TTTTTTTTT TTTTTTTTTT
51 TCCAAGCAAA CCAACACACT TTACTGTGGC GCAGGGCTGCC TCAGACTGTT
101 ACTTATTCA GCCCAAGAAC TAGAAGGACT TGACCAGCTT GGACAGGCAT
151 CTGCTCMGCT CCAGGCTTCC ACGAGTCCTG GCACAGAAGG GTTCTCTGAA
201 AAGTCTACCA CAGGAACTGT GTCTGGCAC ATGCCAAGT

162/472

ug359

1 GAATTCAATG AAACATACAT TCAGAAGCTT TTCTCATTCT CTTGAACAAC
51 ACAAAAGTGAA AAGTGATAAT AATGGTGCAG AAGGTGTAAC AGCTTTTCC
101 TGTAATACAC AGGTAACCTCT CCTCCTAACCA GTATTGGTG AAGATGATCA
151 ATCTCAGGAT GTTATAAGAT TCGCTAACAGA TGTTAATGAT TATAACCGGA
201 GATTCTCAGG GCAGCCTAGA TCTGTAAGTA ATATTATAGC AGCTACAAAG
251 TCAGAGAGAG CCTTTATACT TTTGTACAA TCAGATTAT CAACCAGCTA
301 TTGAACATATG TAAAGTCTTA GTATGTVTCG ACTAAGTTT AACCTTCATC
351 ATTGCCAGTH GCTAGTHHCC CAGAGAGCAG AGTTTATCTA T

ug360

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTT TTTAAGTAGA TTTAGCTTGC
51 GGACCCCCCTG GTGTGACAGA GAAGGCCAG CAAAGTAAAA AGTAGCTAAA
101 AGCTGAGGCC TATGACCCCCA AAGCCCTTGC TAACTCCCC TTGCTAACTT
151 CCTCCTGACC AGAGGTCTCC TGCBGCCAGC AGGAATGAAG CACACTAGCC
201 TTAGAGGCAG GTCTGCGCTG TGGGTCTGTG GAAGCCTCCA GCCTTCTCA
251 GCCTCCTGCT AAGG

ug361

1 GAATTCTCG GTCAAACCTCC CCACCTGGCA CTGTCCCCGG AGCGGGTCCG
51 CCCCCCGCAC GCGCGGGACG GACGCTTGBB GCCAGAAGCG AGAGCCCCTC
101 GGGGCTCGCC CCCCCGCCCTC ACCGGGTCAAG TGAAAAAAACG ATGAGAGTAG
151 TGGTATTCTA CCGGCGGCC GCGAGGCBGG CGTGCCCCGA CCCCCGACGCG
201 AGGACGGGGC CCCGGCCTCC CACTTATTCT ACCCTCTCAT GTCTCTTCAC
251 CGTGCCAGAC TAGAGT

163/472

ug362

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TGCCTCGAGC AGCGCCCGCT TGTTCTGAA
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTGCG
201 TGTCTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGCACGG
251 ATCACTGTAT THGGCTGCAA CTTGTCTATG CTTGACACTT TATCACTGAT
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGAAC C

ug363

1 GAATTCAATT TATTGAAAGC AACCTTAATC CCAACACTTA TTATTATTAC
51 CCGATGAGGG AACCAAACCTG AACGCCTAAA CGCAGGGATT TATTCCTAT
101 TTTATACCCT AATCGGTTCT ATTHCACTGC TAATTGCCCT CATCTTAATC
151 CAAAACCATG TAGGAACCCCT AAACCTCATA ATTTTATCAT TCACAACACA
201 CACCTTAGAC GCTTCATGAT CTAACAACCTT ACTATGGTTG GCATGCATAA
251 TAGCATTCT TATTAATAA CCATTATATG GAGTCACCT ATGACTACCA
301 AAAGCCCAG TTGAAGCTCC AATTGCTGGG TCAATAATT C TAGCAGCTAT
351 TCTTCTAAAA TTAGGTAGT

ug364

1 GAATTCCACA GATGTACAAG CTTAAAGATT TGAAAGGGAA ACCTGAGAGT
51 GAACAGAGGA AAGAAAGAAA GAAGGAAAGG AAGAAAGGAA GAAAGGAAGA
101 AAGGAAGAAA GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAGAAA
151 GAAAGAAAGA AAGAAAGAAA GAAAGAAAGA GMGAGCGAGC ATCATTTC
201 AAGTTGGTTT

164/472

ug365

1 GAATTCGCTT GCTGTGACTG GTCCACAATT CCTTTCTTGT CATCACCAAGC
51 AGCAACCTCG GCCAAGTAAC GGTAGTAGTC ACCCTTCATT TTCAAATAGA
101 AGACTTTGCT TTCTGGTTGC GAASATTGGG GATCAAGAAC TTTTCCAAAA
151 GAGACAGTAC ATCGTTGCAG ATGTCACGCA GCTCCGTCTC GATCTTCTCT
201 CTGTATTCTC GAGCCATCTC TGCTTTTCT CAGCACCTH CGTCTTCTGC
251 TCAATACTTG AGACGACCCT CCACGATGAC CTACGGGCTC CTACAACGTT
301 TTTATAAGCA ACAGAGAGAA GGTTTCTCTC CTCATWCAC AGCTCAGCTC
351 CCTCTCAGTG ACAGACTTYA TKCAGGCTGC CATGTCATCA TATCGC

ug366

1 GAATTGCCG CTTTTTTTTT TTTTTTTTCC CACGGAACTG ATATATCACG
51 ATGGAGAGAA CAATGTCTAT GGCTGCACAA ATCCAGAAAT ACTAGAAGAA
101 AACTAGCCGA AACTTCTTGC TAAATGTGTA ATGTAACATAT TGATTACTGA
151 CATCCTTCCG TTTAAATCCT ATGTGTTGAA AATGCAATCT TGGGCAGCCT
201 GGGGACAAAT GTTCAGTGG A TGCTTCAAGT TGAAATCTGC TGCATTGGCA
251 TGAGGTTTGG TGAAMCTGCM AAGTCACAGC CTGTGC

ug367

1 GAATTCAAGA CGTAGGCAGT ACACAGCAGC AGTTCCCTGAG TGTCCCTGTT
51 TGTCACAACC TGGAGGATGG TGAAGTTCTC CAGGACACTG TTCATCATGT
101 AGCGTTCAAGG CAGCTGACGG AGCTTGTGCA GGAAATTAAC CAGGTACTCA
151 CACATGGGAG AGCGCASAGA CGGTACACAA AGCGCCCCGTC CTCCAGCTGG

165/472

ug368

1 GAATTCTTTC TTTCTTCTT CTTCTTCTT TTCTTCTTCT CCTTCTTCAC
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCCTTGGG
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug368

1 GAATTCTTTC TTTCTTCTT CTTCTTCTT TTCTTCTTCT CCTTCTTCAC
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCCTTGGG
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug369

1 GAATTCCCAA ATGAACTCTC ACTTCTTAGG GCTTGAGTTC CAGAAGTACT
51 GGGGAAAGAC TAAAGCCACA GAAGTGTGA TGGGGGACTG GGGAGATTCC
101 TCAATGGGAG AATTCAAGGTC CCCAGGTCCC GGACTTGGCA ATGTGCCTTT
151 TAACTGAGAT CCTTGGGGCT GGTGAGACAG AATGTCAGGC TCCCGCTGAC
201 CCAGTGGTTC TCAATCTTCC TGTGCTGTGA CCCTTAAATA TAGTTCACAT
251 TGTAGTGACC CCAGCCATGA AATTTTHGTT GCTATTTAT AACCGTGAGT
301 TTGTTGTTAT GAACTGTAAT GTAAATTGT TTTCAATGG GTCACAGGGC
351 GACCCCCCAA AGTGGTGGCG GCACAGGTTG AGAACCACTG GG

166/472

ug370

1 GAATTCGCGG CCGCTTTTT TTTTTTTTTT TTTTTTATTG TCAAGTATTT
51 ATTTATAACCT ACAAAAGAAA ACAAGATGGT ATCAAAAGGA CAATTTACAA
101 ACTAAGAATA GTAGTAACAT AGCTCTGAGC ATCCTGTGCA TAACATCACA
151 CCTACAATTCA AAGTCTCAAT GACAGGAATG TGTGGAGAGA CCAGCAAGGG
201 CGTTAGCAGA GCACTGATCC CAAGCAAAAG CCACCAACCT TTTTTAGATG
251 AGAAGTCTGC ACAATGGATG GTTAGGGAGA AGCAGCCCAC AGCCTAACAC
301 CTAGBCTTCC TAAGTGAGTA ACCATAACGG CATTAAACCCA GCTGGAAGGG
351 TTTGCTGCAC CTGTGCTGAC AAAGGACAGA CA

ug371

1 GAATTCCCCG GCCCTGGCAC AGAGGACTAG GTGTGAGAGT GTGAGGTTCC
51 CACCCCCACC TTTCCTGCGC BGCTCCCTCC CCCCACACA GCCACCCCTCC
101 GTGCTCACCB BCTGGGAGCT TGTTGCTTCT TGTTCAAGGB GCGTAATTBC
151 GACACTCTCT AGGGCGCAGG GAGCCCTGAT TTACATATTG CTCCBGAGTB
201 CBTTCCCTGG TAGGGATTCT CTCTTBGGTT CTGACACCAG GGACAAGAGT
251 BCARACTGGA AAAA

ug372

1 GAATTCAAGAA CCAGAAGCCA AAARCCAATA AAAACAAAAAA TACTAMCAAG
51 TCACTTWCCA GCTTAAATG TTTAAATATT GCATGGATCA ATTTAGAAG
101 GGCATTGTAT GTAAGGCATA CTGTRGCATT TCAGTCACCA AAAGAAACAA
151 TCTTCCTAAA TCACTAGCTT CTAGGCTGCD CTTCTCAATC ATGTGCTGT
201 CTGTCGTCT GTCTGTCTGT CTGTCGTGCG TAGCCCAGAC TGACTGACCT
251 TTGTTCCAC CTTCCAAGTA CTGGTATGAT AAGTGTRCWG RATTATCCTG
301 GCTTAGTCTT TGAAAGTAGA ACHGAGCAAT AGGGAAC

167/472

ug373

1 GAATTCAAGCT CACGGAAGAT GTTGCTAAAT TGAAAAGAGA AATGGAGCAA
51 AAACACAGGG AAGAWCTGGA GCAATTGAAG CAATTGACTT TCAAGGACAG
101 TAAGATAGAT TCTGTTGCTG TTAACATTTC AAACTTGGTA CTTGAGAACATC
151 AKCCACCTCG GATTCAAAAA GCACAAAAGA GACGGGAAAA GAWGKCTGCA
201 TTGGAAAAGG AGCGGGAAAGA AAGGATAGCA GWGKCTGAAA TTGAGAACTT
251 ATCTGGAGCC AGACACCTTG AGAGTGAAAA

ug374

1 GAATTCGTT TATTGGAAA TGTATGCAAT TCACCTTCAG TTTTGAGAA
51 CACCTAGCAA GCATCCAAGA AGACAGCACA CACAGTTCA AAGGAACAAG
101 GACAGACAAA AGGGCTGGTG GCCATCCCAG GGACATTGCC TTGAAAAGTA
151 AGTAAACTGG GTGTCATAAA TAAGACTTTC TTACTTTATA AGAAGGAAGA
201 ATCAAGATCC TGTTTGATG TGTATTAAAT ATAAAATATA AAATACTCTC
251 TGACCCAGAC GAGGGTGGRV GAAATCCTCC ATCCAACACC TCAAGTTCA
301 TGCAATAAAA TCCAGAGGTC TGTTGAATCC GCCTYTCGAT YCATGTACTG
351 CCTGTACTYC CTCTTTGAG ACACGTTGAT GGCGATAGGCA TTACAGAGCC
401 GTCTACCT

ug375

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCA GCGCCCGCTT GTTCTGAAG
151 TGCCAGTAAA GCGCCGGCTG CTGAACCCCC AACCGTTCCG CCAGTTGCG
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGGC

168/472

ug376

1 GAATTCTTCA TGTGTAAGCA ATACCTACTG GTGATGTCGG ATGCCCTGGA
51 GCTGGAGTTA TCGGCATTTG TGATGATCCT ATTTGTAGGC ACAGGGAACA
101 AACTCTGCA AGAGAAGAAA AGACTCTAA CTGCTGAGCC ATCTCTCAGG
151 CCCCCAACCT CTCCATTTTC TGCTAATTAA ACCTTCCCT HMCTCAGCCT
201 TGATTCATGC CCATAATTAA CCTCGACACA TTTCATTCTC AAAGAAATAC
251 CATTACTCCT TAGGGATTGT CTCTTGGATC CTTCTGAGAT TGATCGTTAT
301 GAATGTAAAA GCACGGGGGG GGGGGGGCAG AAATCACAACT GTAAATTCA
351 CATCCTACCT CTCGTGCCTG GAAT

ug377

1 GAATTCCCTCC TACAACCTCA TTAAC TGCGT ACTCCTTATT ATCAACATT
51 CCCTGCGACT TCTTACAATT GGCATACTCC TCAAGAATGG CATGACATT
101 CTTTTAGCA GGGAGCTGGA ACAACTGCTT CTGCCCTCGTA ACCAAGTCCC
151 AGTCCTCCAC CAGCCACGGT TTTAATTCTT CAGGGATCTT CACCTTCACC
201 TCCATCCTAC TCTTGAATGC CTCCGCTCTC CACAGTGGGG TCAGCCCGTG
251 CCCTTTCTT CCGAGGGGGC TGGGGGACTT CACTGGTACH GCCTCCGTCT
301 CCGTTGCCAG GAGCCTTCCT TGTTCATHCHG GTCTTHVGCA CAGAACCGGA
351 AGGARGGGTTC TCAGCAGAGC GAGCCTCCCC A

ug378

1 GAATTCGCTT GCTGGAGAGA GAGCACTCCG CCGGGGGTCG GTGAAGTATC
51 CCAAGATGGC TGGGCGTAAA CTTGCTCTAA AAACCATTGA TGGGTATCTT
101 TTGTGGAGGT CATGCCCAW AACCAAGAAGG CAATGGAAAT VCCCTGAAGT
151 CCTGGAAATGA GACCTTCCAC CCAGGTTGGC TAGTCTGTCT

169/472

ug379

1 GAATTGCAG CTTGAGGCAC AGACGAACCT CACCAAGAGA GAACTGCAAG
51 TCTTGTACMG GGGATTCAAA AACGAGTGCC CTAGCGGTGT GGTCAATGAA
101 GAWACATTCA AGCAGATCTA CGCTCAGTT TTMMCTCACG GAGATGCCAG
151 CACATATGCA CATTAMCTCT TCAATCTTCG ACACACCCAG A

ug380

1 GAATTCCGGC TCGAGCGGSC GCTTTTTTTT TTTTTTTTG GCTGTGTACA
51 CAGGGTGCTT TATTCTCCAC AGAGTGATAC ATGCTAAGGT GGGCTGGGCT
101 TGGYCGATGT BCCCATATGT ACAGAACTGA ATAAAGTGGG TCTCTGAGAG
151 GTCTGAGTCG CCTTGGTGTG AAARGGACAT GGGAAAGGAGG AGGCTGTTAA
201 GACCAGAGTT GTTAGTCTGT GCTGTCTGAC TGGATGTAGG GAGGTAGGCA
251 GC

ug381

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTT TTATCTTCA
51 AGCTTTTATT TAAGTGCACT GACTTAAGAA TGATTAAAT CTTGTTAAAA
101 GCAGCCACAT CCATGGACTG TACGTAGTCC TCAAAAGCAG TAATTGCTC
151 TTCCAGCATA TCCGTTCCAA CCTTATCATC TTCAACTACA CACTGTATTT
201 GAAGCTTTT AATTCCATAT CCCACTGGAA CCAATTAGA GGAGCCCCAC
251 ACCAGGGCAT CTGCTTGAAT GCTTCGGACA CACTCCTCTA GTTTGTCAT
301 GTCCGTCTCA TCATCCCAAG GCTTCACGTC TAGTAGGATT GGAAGACTTC
351 GCAACAACTG CAGGCTTTT AGCTTTCTT

170/472

ug382

1 GAATTCTGA GAGCAGGTCC TGTAGAGCCT GGCGGACAGC ATTACACTCT
51 GCCACAATGC CTCCCGACGG TCATCACGTG TGCAGGATGA GTCAGCCATC
101 AGGGCAGCCC CACTAATAAT GCTTCCAGG CGCTCCTCCA GGGACGGCCT
151 AAAGCGCTCC YYTGAAGCT CAAGKKGTCC ACAATGATT GTTTATCAAA
201 GTTGTGAGA GCGTATCCAG CTCTCCGCCA CTGCCACCCT GGTGCTGGC
251 AGCATCATCT GATGCAGTMG CCTGGGCTGC ATTAGAAATT TCCTGT

ug383

1 GAATTCTTCA GAACTAAAAAA AAATATTCA TTTCATTCTG AATAAAAAAC
51 AGAACAGACA GAACTCTTGT AAATTCTGAA AACAAATGTCG TCGCTACGGA
101 AAATTCACA GAAATCATCA GGGGGTGTGG GGACCAAGGT GCCTGCCCTG
151 CCACGAGCGC CACCTATCTG CAGTCCCAGA GGAGGCTTT AGGGACCAGC
201 ACAGGTGGTG GCAGAGCCTG AATCAAGCTC AGGACGCAGC TTCTACCTGC
251 TGCACCAAGA CCCGGTGGCC CAGAGGGCAG CCTAGGGTCT YCAGGA

ug384

1 GAATTCCCAT CAGAAAAAAA AAAAACTTT GCAGCCAGCT CTACTTGAAA
51 GCATGGAGAT GTGAATAAAG ATGCCTAGGC TTGCTAGTGT GATTAGCCAT
101 CTCCTGACCT GGAAATAAGA CCCAAAAGGC AAAACAAGAA TAAAACCTGA
151 CAGACACCTC CTATTTACAT CCAGCTATGT ACAATTCAAT AAATTAAAGT
201 TTAACTTCT GAGCAGTCAT ATTCCACCTA TTTACAAGAG ATATCAAATA
251 ATTACATAAA TCCTTTGTCC AATGTCGTGT BTCCCKTTA TTATTATCT

171/472

ug385

1 GAATTCCGCG GCCTGGCCT AGTGGCTAA CAGTAGCGAC AGCAGCAGCG
51 GCGGCGGCCG CGGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCC
101 GCACAGGCGA GTAGAGAAAA TGGCAGACGA TATTGATATT GAAGCCATGC
151 TTGAGGCCCT TTACAAGAAC GTGAGAAAAC ACGCTAGTGA GGCTTAATA
201 TATTCTTAA TTTAGCATTA TTCACGAAAC TWCTGCTGAA ATGTAAACTA
251 ACCTTC

ug386

1 GCGTAGGCGA GCAGCGCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTGCTG
201 TGTCAGACCG TCTCCGACC TCGTTCAACA GGTCCAGG

ug387

1 GAATTCTTG CTACAAGCTG GGACAGCTGC AAGAGGAGTG GCAGAGCAGG
51 CTCCCGTTGT CTCTCAAGTC TTTTCCCCT GACTAATTGG AATTCA TAGG
101 GGTAATTAT AGAGGGTGTG GGAAGTACAT TTTGTTGCAA CCTGACAGTG
151 ACTGTGAGTT CCTCATTAAAC CACCATACAT GGGCTCTGTT CTAAGTCTGC
201 TGTTGTATCA ACTGTCTAAT TGTCTAATT GTCTAATTAA GTCTTAGTG
251 TTCTTGAAGG ATTTAGGTAC CAGTGTACCA TTTAGCAAAT AAGCAAATG
301 AGGCACSAAA GGTTAAGACT GCTTAGGAAA CCATAGGCAA TGAGTGTT

172/472

ug388

1 GAATTCGCTT TTTCTTGTGT GAACAGTAGT GGTGAGGCCT ATGTTTTAT
51 GTGGCTTAG AGAAAACCTTC AGTCTTCAAW GAACTCTTCT AATTAGTTCC
101 TTCTTAGAAA AAGTTATGCG TTAATTGTT TCAAAATATT TAGGCATTCT
151 TTGAATTATA AACTTGTGAT GCAGGGATT ATGAATGAGA CGTTCACATG
201 TGAAGATGAC TTCACTAWGC ATCTGTGTAAGCAGAATAAG A

ug389

1 GCGCGGATTCTTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTDATCCGTG
101 CCGCCCTGGA CCTGTTAAC SAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GGTCAGCAG CCAGCGCTTT ACTGGCACTT
201 CAGGAACCAG CGGGCGCTGC TCGACBCACT GGCGAAGCC ATBCTGGCGG
251 AGAACATAC CCATTGGTG CCGAGAGCCG ACGACGACTG GCGCCATTG
301 TGATCGGGAA TTCCCCCAGCTTHAGGCAG

ug390

1 GAATTCCGCG GCCTGGGCCT AGTGGCTAA CAGTAGCGAC AGCAGCAGCG
51 GCGGCGGCDG CGGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCG
101 CACAGGCGAG TAGAGAAAAT GGCAGACGAT ATTGATATTG AAGCCATGGC
151 TTGAGGGCCC CTTACAAGAA GGTGAGAAAA ACACGCTAGK GAGCTTTAAT
201 ATATTCTTA ATTAGCATT ATTACGAAA CTHCTGCTGA AATGTAACT
251 AACCTTCCCG G

173/472

ug391

1 GAATTCTTA GCGGCGGCGG CGGGATCCA GCGGCTGGCT GGCTGGCGAC
51 TAGGCCTCTT GCAGAGAATC CGGCGGGAAT CTGAGCCATC CGAGCCGCCA
101 CCATGACGGT GGGCAAGAGC AGCAAGATGC TGCAGCACAT TGACTACAGG
151 ATGAGGTGCA TCCTGCVVGA CDGCCGTATC TTCATCGGGA CCTTCAAAGC
201 CTTTGACAAG CACATGAAC TGATCCTGTG TGACTGTGAT GAGTCAGGA
251 AGATCAAGCC AAAGAACTCC AAACAAGCAG AAAGGGAAGA GAAGCGAGTC
301 CTTGGTCTGG TGTYCCT

ug392

1 GAATTGGGG GATATAGCTC AGTGGTTAAG AGCACTGACT GTTCTCTAGA
51 GGTCTGAGT TCAAATTCCA GCAACTATAA CAGTGGTTCA CAGCCATCTG
101 TAATAGGATC CAATGCCCGC TTTGGTGTG TCTGAAGACA GTGACAGTGG
151 ACTCATATAC ATAAAATAAT TCTAAAAGA ATGTTAAAAA AAAAGAACAT
201 TTATTTAAA TAAATAAAC AAATTAAAGA ATTATTTAT CATTATTAAC
251 TGTGTATATG TGCACGTGAA TGGAGATGCC TATAAAGGCT CATTGGAACC
301 CGTGGAGCGG GAGTCTTAGA CAACTGTGAG CTGCCATGTA GGCACTGGGA
351 AGTGAAC

ug393

1 GAATTCTTT GAAACAAAAC GACTTATTAA CGGTTACTTT CCTTATAAGA
51 AGGAACAGCA GTCTCTAATA ATCACCATAA AGTGAAGTGC TGTGTCCCTA
101 ATTTCTCCA GTTTCTCTA CCCTAAGACA TGTTTTGG AGACCACAAT
151 GACTTTGTA TTTAATAATG TAAGTTCTA TTCAGATAAA ATGATCCAGT
201 TTCAAGACAG GTGAGAAGCC CTATTAAGT CCAATGGCTC ACAATATGGA
251 CTGAGAACAG GAGACATTT YCCTYCAAAG

174/472

ug394

1 GAATTGCCT TGTCCCCACA CACGACACAC TGCTCGTCTT TGTCCAGGTA
51 ACTAGGGATA TACCCCTGACA TGCTGCTTT CAGGGGACAT TGGCCGTTCT
101 TTCTTTTCG CTTCATCT GGTGACCTGG CACTGTTCTC CTCTGGGTCT
151 GACCCACACT CCACCTTGCT TGGCTTCTGT TCCATTCACT TCAATTCCAT
201 CCAGGATGCT CTCCAGCRCG CCAAGAGACT GGGGTGGGCA CACTGGCCCC
251 CC

ug395

1 GAATTCCCTGA GCSGCACCTTC ATCGATGATG TACAGATGCC CCTGGGTCTG
51 GTGGTGGCTT CCTGCAGCCA GACAGTCACC TGTATCCCCA ACTGCACTTG
101 GCGAAACTAT AAGGCGGAAG TGCGCTTCGA GCCACGCCA AAGCCCGCCG
151 TTTCTCAGC ACCACCATCG TCTACCCCAA GTACCCAAA ACCGTCTACA
201 CCACCACTCT GGATTACAAC TGCCACAAGA AGCTGAGGAG GTTCTGTCC
251 AGTGTGGAGC CAGGCCACGG AGTTCTGGG CGCGATGGGC TAGCCGATGA
301 ATGTTGACTC AGCTAGCTG AGGTTGGACC AGCTGTTCAT ACACGCCCT
351 GGTCCCCAGA CCACCTGGA CAAGCTGGGT AGCATTGCTC TT

ug386

1 GCGTAGGCGA GCAGCGCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTGCTG
201 TGTCAGACCG TCTCCGACC TCGTTCAACA GGTCCAGG

175/472

ug397

1 GAATTCTTC AAAGTATATA AATAGAAAAA CCCTAAATTG AACTGAACAG
51 GTTATTAAAT GAGCAGCACT AATATATATA TATATATATA TACACATACA
101 CACACACACA CACACACATA CACACAAACA CACCAAATA CGACAGAAGA
151 AATAACAAAA ACAAAAACCA TTATAAAAGC AGTAATATTA GGGAAAAAGT
201 CCAATAAGTA AATGTATAAG CAATAAGCAC CCAAGAAATT AAAAACACTG
251 AAAAACCTC TCAGAAAAGT TCTGTCGCGT TTGTGAAACCT TTTTTTTTTT
301 TTTAATCAAA TCGACAACAA ACATTAA

ug398

1 GAATTCAATT TATCTAGGTG GACTCTGAAA AATGCTGTAG ATTTCTTTT
51 TTTTTATTAA TAACAACAAC AATAATATAA AAAGTCAAAC AACTGCAA
101 CACACGTTT CTCACTCAGA AAACCTTTA TAATTACCA GAAAGATTGG
151 TGACTCTTC CAAAGTGCTA AAAAGTTGC CCAATTACAT TAAGCATTAC
201 TAAGTCATTC AAATACAGGT TCAGTGGCAA GCAATGAAAT GCACGGCATT
251 TGAGCAGTAA GCGTCTCCGC CCACCTCCCC TCTGCACGGT CCCACCAGAA
301 GACCTCTTAT TGCACAAGTG ACATGCTGTA AAACCTAGGG TCCTCGTKGT
351 CAGGGACACC CATTCAAGGTT CTTAACCTGC

ug399

1 GAATTGGAA AAGTGTCTTA CCCTAGATGT TTAGCCATGG TCAAATTAGA
51 CCCCTGACTT TCTGGAAACA AAATATGTAG TTACCTTTA CTCTGACCAT
101 CATCTCCCAC CTGCCTAAGG TACTTAGTCC TTAGTTAGAC GGCTCTATG

176/472

ug400

1 GAATTCAAAG GGAGAAAAAC AAAAGTCAT GACTGTGATG CCCAACATAA
51 CAGTTCTAGG GCAGGTATGC CAGGGAGCCC CTCCCATGCG CTGTCTCCCA
101 GCTCCCACCG CTGGGCAAGG ATCATTAA GGATGGGCAG TTCTGGGCC
151 ACAGCACCTA GTTTGCGGT TAAAGGGAGT GGGGGGAGGG GTGAACAGGA
201 AGACTGAGGA GGGCTCGGGG CATGGTGACA AAAAGAGCTA GGCTGCCCTA
251 CCCCCAACTC GATTGTCTAA CAGATAAAAT GCCTGGCCAT AAATATGAAC
301 ACTGATTGAC TGTTGAGGCA GATTGGATCT AAAACTTGCA GGGSAGAACAA
351 AAATKGCTGT GACACCCCTG AATTGGTAT CATAGTATCT GGGGTCCATG
401 TCCTAACTTA GGAGTGGATT CTGTCTAAAA AT

ug401

1 GAATTCTCGA TCTGGAACCA CCAGCCATGC TTCCTTAAGG ACTGGAAAT
51 GCACGTCCAC TTCAAAGTCC ATGGCACAGG GAAGAAGAAC CTCCACGGAG
101 ATGGCATTGC CTTGTGGTAC ACCCGAGACC GCCTCGTACC AGGGCCTGTG
151 TTTGGAAGCA AAGACAACCTT CCATGGTTG GCCATCTTCC TGGGACACGT
201 ATCCCMATGA TGAAACCACT GRGCGTGTGT CCCC GTACAT CTCGGTGATG
251 GTGAACAAWG GCTCTCCTGT CGTACGATCA TAGCAAAGAT GGACGATGGA
301 GTGAGTTGGC AGGCTGCACG CTG

177/472

ug402

1 GAATTCTTG CAACCAACAT GAAATAAAAA AAAAAAAAAT CTGTAAGCTT
51 AAAGTTAAT GTGGTAAGCA CAGCATGGCT GAAGAACACC AACTCTCCCT
101 CCATGGGTGT CATTGCCTGT TGACCTGTGT GTGTCTCCC TCACATGATG
151 GCAGGTCATG CGAGAGGCC CTGGTTCCA TGAATAAGGG GGGGGGGGTA
201 GGTGAATAGG GGACTTGACA ATGCAGGGCT CTTCCTTTC CATCGTCTT
251 GTCTGTAACT TTTAAGACAA AATTGAAAT TTGAAGGTAG TCTCAAATCC
301 TGGAAGGTTT AAAATTGAT ATAAGATAAA AAATGGAAAC TTTTATTAAA
351 ATAAGTACTT TAAACTAACCA CTGAATAGTC TAGACCGTTA ACAGAAGGAA
401 AATCTTGTGC AA

ug403

1 GAATTCCCCG GCTCGAGCGG CCGTTTTT TTTTTCTAC TTGCTAAGCC
51 ATATCGAACAT ATATGTTTT CCCCCCAAGC AATCAGTTG CTTTCTCAGA
101 TTTTATTGAA AATAAAAGGT CCAGGTCATT TCTAGGACTT GGAGGATTTC
151 CTGAAATCT ACTAAATTAG CACATCAATT AAATTGCCCT AACTCGCAGT
201 GTGGAAGACA ACAGTGTCCA TTGCTACGGG ATCCTGGGGG TTCTGCAAT
251 ATAAGTGTTC CTCATGCGT GGCTGTTCC CAAATGTCCA CCTCCAAAAA
301 AGTCATCTGT AATCTTGTAA ATTAGAACCA CTTCCAGTAT CTTTCTGACT
351 TTTACAGTTA AGGTTACAGA ATTGATTTAW TTTATAGTCC ATGGCTCTCA
401 GAGCTTAACA CTAGCAAGAC CCCATGGCTA GAATGCCCTT AGGG

178/472

ug404

1 GAATTCCATA AAGCAAACAT TGAATAAAGA TGAAATAGCA CTGGTAAACT
51 TAAAAAAATAA AAAACCAAAA ACGTTCTGTG CTCTTTATG TGTAAGATGC
101 TAAAATCAAG TATCTTCCA GATGGCTCAC CACCTTGTAT TTATGCAGGG
151 TCTTACACTG AACCTAGAGT TTACAATTG GCCAGCTTGC TTTGTGGAT
201 ACTATCTCTA CATTCCCAGT GCAAGGATT AACTGGSCT ACATATCCAC
251 CCATTTTAA GGGTCTGAAT CTGGTTTCA TTGTCTGCTA GTGCTTATC
301 TATTGGACTA GCTCCCCAGC CACACAGTA GGCAACTTT AAAAGGCTAT
351 CACACCTGTG ATCTAATTCT GATTCACAG GCTAAGAACG TATTAAATCC
401 AAGGAACCAT GAACTAGTTW AACAAAAATG GCT

ug406

1 GAATTCAAAA TTCATTTCTA TATCCTCTTC GATGTACACC ATCTCCACAG
51 ACTTAATTCT TTGAAGCCAG AGACCTGGTA GACTGTGACC CAGTAAAAAT
101 GGCTTTGCC TTTATGTACA TCAGATCCGG GCAGGGCAGT GACATCAACT
151 AACACGGTGG TTTCTTACAA GAGCAACAGG GTGTGTGTGT GTAGGGTGGG
201 GACTCCTCTT CCAAAGATCC AGCCTTCAGA CTGACAGCTC TGCCCTTTCA
251 TCTCACCTCC TGAGCAATCA CACAGGTTA CCAATGTTA ACCACATACT
301 TAACAAGAAA GGGCAATCCT TCTGTAAACG TTCTCTGCTC AAGGTAACAA
351 ACATGCCCTT GGATTGGTTT CAGGAGATCA GCTAGGGACG ACCTGTGATC
401 CCCGTCTCCA TTCCCTCCAG

179/472

ug407

1 GAATTCTTG GGGGGAAATC CCCAAATTG GGCCCCATT TAGAACTCTG
51 GGGAGTTCAA ATTCCAGAGA GAATATATAT TATATATGTC CCCAAATT
101 CCCATCCCTC CAAGCCCCAC GATCTCTAGA AGCCCCAAAT TTCTAATTCC
151 CAGGACTTCC CTACCCAAGT AACAGAACATCT TCAAATCCCC AGGGAATCCA
201 AACTTAAGAC CCCAATCCA AGCTCAGGAA ACCCAACTAC MAGGTCTAA
251 GGCTGGGAGG AAGGACCTG TTGCCAGGCT CTCAGGGCAT CTCAAACACT
301 GACTACCAGG CACCAGG

ug408

1 GAATTCCGAG CGGCCGTTTT TTTTTTTTT TGTTTGT TTGTTGTTT
51 GGTTGGTTGG GGGTTTTGT TTGTTTTTC GAGACAGGGT TTCTCTGTAT
101 AGCCCTGGCT GTCCTGGAAC TCAGAAATCC TCCTGCCTCT GCCTCCAAG
151 TACTGGGATT AAAGGTATGT GCTGCCACCG CTCAGCATT WCGTATATT
201 TTATTCTTCA AAACTAATCT CTACAGTCAA TTTAGCAAGC TCAAAGATAG
251 CAATGATCCA AAGAAGTACA GACTAGAAGC AGATCAATT

ug411

1 GAATTCAATT AATTAGAGGT AAAATTACAC ATGCAAACCT CCATAGACCG
51 GTGTAAAACC TTAAACATT ACTTAAAATT TAAGGAGAGG GTATCAAGCA
101 CATTAAAATA GCTTAAGACA CCTTGCCTAG CCACACCCCC ACAGGACTCA
151 GCAGTGATAA ATATTAAGCA ATAAACGAAA GTTGACTAA GTTATACCTC
201 TTAGGGTTGG TAAATTCGT GCCAGCCACC GCGGTCTAC GATTAACCCA
251 AACTAATTAT CTCGGCGTA AAACGTGTCA ACTATAAATA AATAAATAGA
301 ATTAAAATCC AACTTATATG TGAAAATTCA TTGTTAGGAC CTAAVVAAT
351 AACGAAAGTA ATTCTAGTCA TTTATAATAC CGACACTAAG ACCCAA

180/472

ug412

1 GAATTCTGGAA AGATGGTCCT TCTCAGGGCA TCCTGGGAAA CCTGGCTGAG
51 AAAGAAGGTC TGGTCTTAA AGCTGTCAGC TGCTTGGAGA AGTTTACGG
101 GGTTTCTGAC TTCAAATCGA TTTCTGAACA GCCCGTCAGG CTTCTTAGTG
151 TGCTTTGCT CAAAGACTTC CTCATCCTCC AGTGAGGTCC TGGCGTAGTG
201 GCCAGTGGCA ACGGCATCTG CTCCAAGATT GTCCACAGCA TAGTGATAAA
251 AGCAACTGAA CTTGATATGC TTATTGCAGT TGATGTCGGG GTTTGAGTCC
301 TTCTTCTCA TACCGKTCAA AAAGTCACTG AACACATCAT TCCAATACTC
351 CTTCACATAG GACACCTGGT GGA

ug413

1 GAATTCCAGC ACCTGCGTAS CGCACGTGGT ACGTCCAGGC CACCTGTGCC
51 ACCCAAGGCA CAGGCCTGTA TGATGGGCTG GACTGGCTGT CCCACGAGCT
101 GTCAAAGCGC TAGCCAGCCA GGGGCAGGCC CCTGCTGCC GGAAGCTCCC
151 GCGTGCATCC CGGGATGACC AGACTCCGG ACTCCTCAGG CAGTGCCCTT
201 CCTCCCCACT CTTCTCCCC ACAGACAGGC CTCTGCTCCT GCGCCTGCCT
251 GCATGCTCTC TCTTGTCTGTT GGAGCCTGGA GCCTTGCTCT CTGGGCACAG
301 AGGGCTCTGC TCTCCTGCCCT GCTGGGACCT GTGGATGGGC TTCCTGGCCA
351 AGGCCCTCTC TTCCAGGGGA GGAGCAGGGTA TCTGGATTAA ATTTGGTTTT
401 GGTTTTGGTT TTTTGATTAA

181/472

ug414

1 GAATTCCCTCA GTTTCTTCAA ATATACATGC TTTCAAGCAC CTCCCAGGTG
51 TAGTGGCCCG GAGTGAGTTT ACTTCAGATT ATTCAATTACA ACTAGCTGTT
101 ATTTGTTTAT AATGCCCTTG TGATTGTACA CTTGCATAT GTTACTCCTC
151 TTATTACTCA GAGTATAAAC TGTCTGATGT TCTGAATAAA GTTAGCTATT
201 GCATGAGACT TCAGTCTGTC TCATTTAATG GCTCCATTCT CCCAGGTCCC
251 ATCACAGTAA ACAATACATA ATGGATTTTT TTGTTTGTGTT GTTGTGTTTT
301 TTGTTTTTC GAGACAGGGTTCTCTGTAG CCCGGCTGTC CTGGAACCTCA
351 CTCTGTAGAC CAGGCTGTTCTCCAACCTCAG AAATCCGCCT GCCTCTGCCT
401 CCCAA

ug415

1 GAATTCGCTG TGGCACCCAT TCATGTAAC TCCCATTTCA ATGTAACAA
51 AGTTGCTGGT GACTGTGGCT CCTGACCTGT ACGTCTTATT TGGATTTTC
101 TCTGATAGCC CATCTAAGAA CTTGAATTCA CACCCTTGT GCAGGGCTGT
151 GGTTGACTCC TGGTGAGGGG TGGAGTGATT TCTGTGACTT GAGAACGAAT
201 GGACACAAAGT GCTAAGCAGT CTGCTGGGCT CTGCTGTCGT TTAGTGTCT
251 GTTTCCCTG ACATGGTGTCA ATCCTGAA TTTATTCACT GGCTTGGTT
301 CCATTGAAGT CTGAGTCCCG AGCGTCCATT TCTTCTTCAG AACCATCTGT
351 GTTTCAATA ACTCTACGGC CCCCCAGCCCT TCTGGAAGGA ACAAATGAAG
401 CCTCGTTCC HCTCCTGGTG GCTCACTGCG AAGTTCTG TGGGGG

182/472

ug416

1 GAATTCTGTTT CTCCCTGGGCC TCGATCTGCC GGATGACATC TTCCATCCAG
51 AGCATGAGGT CACGCACCAT GCTGAAGAAG CGGAACTTGT CTCCCTGTGTC
101 TACCAGCCGC ACCCTGCGAC CCTCACAAAGC ATCCAGCAGG GACTTCCAGG
151 CTTCCAGGAC CTCATTCTCA CGCTTCTGGA TGTCATCAGC CTTGTCCCCT
201 GCATAGGGCTG CCTGGAGGCG AGCTGCATCC TCCTGCAGCT GCCTCACCTG
251 AGTGCCCAGA GCTTGGATGT CGTGCTAAA GGTGGTGTGC ATTCTCTGTA
301 AAGTTTCCAC AGTGTGTTGA TCTCTTCAA GCTCCTCAGG GAGTTTCTTG
351 TGTTTGTCTT GGATTCTGGCC AAAGATCTCC TTGGCATCAT GGTAAAACCTT
401 ATGAAGTTCA TATGAGCASC AAGAATCTGT GTTCTTGTGT CAATGAGCTC
451 CAGGAGGTCA CCCA

ug417

1 GAATTCTGTT GTGTGTGTGT GTGTGTCTGG AGTTTACCTG CTACATCAGA
51 ACGACCCCCG ATCCCAGCCA TTGCTTGTGG CCTCTCTTTA TAGTCAGATA
101 TTGCCTTGT GTGAACCCTG GAACTATTGA AACACTTGTCTCTTGT
151 TTCTGTTCAAG TTGTAATCAC TGTTACATGT GGAGGCCACAC AGTCACCTCC
201 ACGGGGCTGTA GGAGCWGCTT TGTGGTCTGT GTCCATACAT GGGACCCCTTA
251 CTTGGAGTAG GCTCTAGGTG CATTGGCTA AGAACAAAGCG AGTAACACTA
301 GAAACAAAGC TCTGCTGGGG TGAGCTGGAG AWCATGGATG CTCTGCCAGG
351 GTGAGCAGGA GAWCATGGA

ug418

1 GAATTCTGGAA CCTTAGGCAT TGCAGTACAG ACCCCAAAGGC TAACCCACAA
51 CTTAAAGTGG AAAATCTTAT RGTTTTCCC CTTGGTCAG ACACAGATAT
101 ATTTGAAGAA TTTCCAAATT TAGAGTTCTC AATTTGGGT ACATCAAGAC
151 TTTAAAGTA GAATTTACGT AGAACAGAA GAGAAAAATC TGGGACCTTG
201 AAAACAGTAC ATTCACCTC CTTGGGSTA AAAGTCACCT TCAGTTAAG
251 GGSGGCATTC ACAGAAAACC TCAGCTGGAG CATCTCGTGG CGCAG

183/472

ug420

1 GAATTCCCTT CTTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC
51 CTTTCCCCT TCCTCCTCCT CTTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTTCGGC TTCTGGTTCC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC
201 ATTTCTGACT TCTCATCTTC CMCTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug421

1 GAATTCACTG AATGGTGAA ATGCTCTCCA GTGGGGTGTG GAGAGAGCAG
51 GAAGCCAGTG GGCAGGGCTGG AGCAGGTGGC TCATGGAAGG GTGGGGTTAGG
101 GACCTTCAGC CTGACTTCTC CTGGCGGGGT GGACGTAGGG TGGGCAGAAC
151 CAGGAAGCCC ATGACTTCGT CCATGCTGCC TCCCTTCTCC CCTCCTTACC
201 CAGGGTCCTG CATCCTTCAG SCCCCTATGT GGCTGCCCTG CACCCTTGCC
251 TGTCCCACCC GGATGCCATG CACCTGTCCC CGTCACTKGT TCCCTGCTTG
301 GACTGCAG

ug422

1 GAATTCTCAG CATCATCTCG TAGTAGTTGG TGAGGGTTCTG CTCCACAAAG
51 TGAAAGGTAC GGATACTGAG GGTCTCAGAA ACAAGGCCGG GGAGGAAGGT
101 GGCAGCTCGG TTGAAGGCCA TGAAGAAAGC CATTGCCCCA CATGTAGTAA
151 GTCTCGTCAT GCTGCTGCCT CTCTCCGAA GCAGATGATC CTTGACCGCC
201 CCATGA

184/472

ug423

1 GAATTCTGATG CTTCTATAAC CCAAGGAATG CCACGGATTG CCAGCAAGTT
51 CAGAAGTTAA GGGAGATGCT TTTTTAGGAT CCTTCCAGG GCCCCTGGAA
101 GAAATCAACT CTGCTGACCC CTTGACATAA GACTTCAGAG CAGTGAATAG
151 TCTCTGCTCT TTTAGACATC TGGTCTGGGG TCCTATATTA GGGTAGCTCC
201 AGCAAACCTTG TAACTTCCCT GAGCAAGTGG TTGGCACAGA CCTGTTATTT
251 ACTTAATGCA TAGTTCCCTT TGTCCTATA TTACATTTAC TACAGTCTCA
301 CATACTACAC TTTACCCATT ATTCAATGAGG GTAAACTTGA TGATCACTGT
351 TTATTCAAGCA CCTAGACAGA GTTGGGGATC TGC

ug424

1 GAATTCTCG GCTTAGCAGG TCAGAAAGAC GTAAGCACAG ACCATGGCCT
51 ATGGAAGAAG CTGGACTATT AGGAACCTGT TGTAGAAACC CAGGAGAACAA
101 TAGAAGACAA ATAAGGGAAA GTTGGGGGG ATGAAAGAAT AGGGGGGGTG
151 GCAAAGATAG CTCCATGTT CTTGCTCTGA AACCTGAGG ATAGAAGTTG
201 CCATTCAATTG TCGTTGAAAG ATGGAAAGGA TWAAATAAGG GAAATGTCCA
251 GATCTGTTG GGAGCCTGTT AACATGAGG AAACCAAGGT GGGGTGTTCA
301 GCCCTGGATG ATCGTAGGAG TCTC

ug425

1 GAATTCCCTCG CGTCGCGGCT GCGGAGACTA GAAGGGAGGAC TCCGGATCCG
51 GCTCGGCGCT CGCCCTCGCT CGCCATGGAG AAGACCGAGC TGATCCAGAA
101 GGCCAAGCTG GCCGAGCAGG CCGAGCGCTA CGACGACATG GCCACCTGCA
151 TGAAAGCCGT GACGGAGCAA GGCGCCGAGC TGTCCAACGA GGAGCCAACC
201 TGCTGTCGGT GGSCTACAAA ACGTKTAGG GGGGCCGAG TCCBCCTKGA
251 GGGTCATCTC GAGCATTGAG CAGAAGACCG ACACCTTTG ATWAGA

185/472

ug426

1 GAATTCAAGAG AATACAATCC AATTCACTGC TACAATTCAT AGAATTGTC
51 AGTGTTCCT TGAGACGCTG AGGTTCACTG TTGGCAGTTT CCAGTGGCCG
101 CATGTGCTGC TCAGAAAGGC CAGCGGCAGA CAGCTGCCG GAAGAACTTT
151 CACTGCTGGA AAACGTGTCG CTCCCAAGGA AAGCCCAAGG AAGGCTGGGG
201 CCGTGGSTCA

ug427

1 GAATTCATCA ATTTTGCTAA TGATGTCAA TAAAGATTGG TTGTCAATGG
51 GCAGCACACA GTCTGCATGC TCATTCAAGTT CCTTCATGGC CAGCATACTG
101 TTATAAGGCG AGGTGATGGC ATCGTCTTCA CTGGAAGGAT AAACCGCTGT
151 CACAAACCGG TACACTTCTG GGAATTCAATC TTCAAGAACCC TTTAACAGAA
201 ATGTGCCAAG CCCAGAGCCT GTTCCTCCGC CCATGGGAGT GGATGATGAA
251 GAAGCACTGT AAGCAATCGC ACTGCTCTGC CGACTTCCGC AGTTTCTCTA
301 AAA

ug428

1 GAATTCTTT CTTTCTTCT TCTTTCTTTT TTCTTTGGA AGATTTACT
51 GCTTTATGG TACCCCCCTC ACTCTGTGGT GTCGAGCTGT CCATCAGCAT
101 CACGTGGGTG AGTCTGGGAT CTACTGACTT GACCTCACCA GTCTCAGTTA
151 TAGACACTTC CATAAGACGG GTGACTGAGT CCTGACGGCT CACAACACCA
201 CAGAGCCATA CTTCTCTCC TTCGGGTTGG TAGACCTTGA CTCTGTGGCC
251 CTGGACACTA TAGGGACCTC GGCTGAAAAT CTCTGTAGC TTTGGTCAC
301 TGATCAAAGC ATTAACTGTC TCTCTTAATG CAGCATGTTCAAAAGAAC
351 TGATTTGAA CATCTGTTCC CATCTGGAAC AGATGCVTCC CATTAGCATC
401 CGACAGGAAA CGAAGCTCTC GATCACAAGG TATTCAACTG GCACCACAGA
451 CCCAACSCC AGCTTATCTA CTAGGGGGGG TGAAAGTCAG GGHGGCCACT
501 GGGHAAGTGG G

186/472

ug429

1 GAATTCCCC AATGTACTCT CTATCTATT A TATGTGTGCA TGATTTAAAA
51 ATGGAGGGGG AGGGAGGCAC AATACAAGGG CTAAGAAATG GCTCAGTGGC
101 AAACACATT C TGCA TGCAAG CATGAAGACC TGAATTGAA TTTTCAGAAC
151 CTATGTAAAAA GCTGGAGGAA TCGTGTGAGT ATATGTAATC CCAGCACCCC
201 TATGGGGTAA ATGGGAAATG GGACAGGAAG ATTCTGGGAG CTAGAGAGTC
251 ATCTAGCTGR GCATACCCAC

ug430

1 GAATTCCCTG GAGAAGCCTG GAGCTCCACA TGCAGAGAAA TGATCTGTCC
51 TTGTGTCTG TTCTGATTAA AAACAAAAAC AATCAAATAA AAAACAAAAT
101 KGAACAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTCT GAAGAGAATT
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug431

1 GAATTCCGCA AATTCTTAA GGAAGTGGAA GCAATCATTG TTTACTTTGC
51 TGCTGGTCTG TGTTTACCA ATTGCAGTTA GTAAACAACT AGTCTAGGCA
101 TTTATGTGCT ACATGAATAT AACCAAACGT GAGAAAATAG AACTGCAAT
151 TTTGAGAAC TATTTTTTT TAAATTCCAT AGGCAGGCTT TTAAAATAAA
201 AACAAAGTGGG TCACTTTGAC

ug432

1 GAATTCGACA TAGGAAACAG GCCATCCAGA CAAGGAGTGA GGGTGGAAAT
51 TTTTGTATTT AGAGTCACAT GTAAATTTA AAGCTAAAA AAATAAAACTA
101 GTAACTCCAT GAAAAAAATG AGTGCTTGG GGGTGGGTA GGGGATAAGA
151 AAGAAAATCA GTGAGGGGCG AATGCCAAT TATCACTTAG CATCTCTTAA
201 ATAATTCCA CTGGAGGCAG GGTATCTTT CCAAAGAGAT GAGCCCCATT
251 GGATGGATT T GTTACAGTT TAAGTGATTA AAATCGGGAC TTTACAGTAC
301 ATTTGTGGGK CTTTACTAG TTTTAGAGT GGTGTTKGC AAAT

187/472

ug433

1 GAATTCCAAA TTCCCTTGA GCCAGGTATG AGCTCATTTC YCTACAAGCA
51 TCCAAWWGTC TTCTTC

ug434

1 GGRATTCGTG AGGCCGAACG CTAAACTAAG GTACAAACGG CTTAGGCCTA

ug435

1 GAATTCCAGA GGGGAAGCCC GAAAACCTGC TGTGCTTCCT GGAGTTGGCA
51 TGGCGGCTCG CCCASGGGGC TCCTCGCACA GACTGACTGG GGAGGGTGAG
101 T

ug436

1 GAATT CCTGG GGCTCTGAGG ATCCCTTTTC TTCCCTTTCC ACTTGACCT
51 CTGTTAAGGA TYCACCTGCA TCCCSGAAAH TGCCACATTG TGCCACTCAA
101 AATTGCATC ATTTCGGGAG GSAAWTTTT CATCTATGTC TTCAGTGAGA
151 GAGTCATCTA GATCAGACGT GGGSAGAGGA ACCCAGAAC AACGAGCKTY
201 ATGTTGGCCT CAT

ug437

1 GAATT CGAAA GAGGGAAGAA TGAAGCCTGA GCTGAACCCT AAATAATATG
51 TCAGAAAATG ACAACTTGCC TCCCTCTAGA CTATTCATT TGAAAGATT
101 GCTAGGTTAC ATTAGGGCTT GGGATAGATT TTTCTGGGAA TGGGGSCCTA
151 ACCCMCMGAC TTAAAAAATG SCCCCGSTTC MCAGTTCT

ug439

1 GAATTCTTT TTTTTTTTTT AAAAAAAATAG TATGTATAGT GTGTGTACAT
51 GTGTATAAGC TCAAGTAAGA AAGCCAGAGG AGACTGGSCT TGTCTGTTCT
101 GCTCTCCACC ATTAAGCCCT TGAGACAGGG TCTCTCACTA TACCTGATGC
151 GATAGCCAGC AAACTCCAGT AACCTACAC CCAG

188/472

ug441

1 GAATTCGAGT AGATTCCCAG TGCTCACCAT GAGGGAAACA ATGTTACTAT
 51 ACCTTTCTA TGAGGAAAGC CGGGTAAACG TAGAGGTCT CTGTCATGTC
 101 TTTAACATA GTTGAGTAG ACAGCAATGC TCTTACCTA GCTTAGTGTT
 151 CTGATGGCAA AATATTGTAT ATTGTGATAA TTATGTCCTA TTTATTTGAG
 201 ATTCTTGTTT AAAATTAAA AAACAAAAAA ACAAAATDAAA ATTTTTTGC
 251 TATGCCCTAG ATGTAGGGCT TTTTTTCCA ACCAAAGGTC TACAAAAGTT
 301 TCTATAGAAA CTGTGATTG

ug442

1 GAATTCCACG AGGGGCTTCG GAAAGGAATG TTTCTGGAA GTCCTTCCAC
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 101 CTTCCGTGCT TCCCAAGGCC TCGGCAAATT TCTTGCAGAA GAGCTGGTCA
 151 ACCATCTTCC TCAGTTGGT GATVCGAGCG TACCACTCTT CTTCACTCC
 201 TGAGGCTGGT TTATCAAGCT GTAAATCTC TCGTGTGAG TTCAGAAGCT
 251 CATGTTCTT AATCACGAAG CGGATCCTT CCTCDCCAG CAATATCCTC
 301 TCAAGGCGAG GAATTCCGTA CGTCGACGCC TTCTAAAAGG AATCCCTYA
 351 GGAAGYYCTT CTACGTAAAG ATCTTCAACA TGGGACTGGA AAAGAGGGTA
 401 C

ug443

1 GAATTCTGG GATTAAAGGC GTRCACCAACC ACGCCCGGCT CAGGCCAGAA
 51 CCTTACACA TGCTTAACA AAACTAGTGA AAAATGCATC TTAAAAACAA
 101 GAAATTCCA AAATACAAC T CAGAAATTAC TCCACCCAT AAATGCAGCA
 151 AAAAATCATC TGATCTATT TACCAAGTTAC TAAGCAAGGT ATAGTGGCAG
 201 AGACCTGTAA TTCAGGGGG CAGAGGATGT CACAAATTCA AAGCCAGTCT
 251 GGTCTACATA GCAAGTCTGC CCCAACTCAA TGCATTACAA AATGACCCCC
 301 CTCCCCGACC TCTCAAAACA AAACAAAACA CACAAMACAC AAAGCCCAMA
 351 CAACTCATTA GTAAAACAAT TTGATAATT ATATT

189/472

ug444

1 GAATTCCACT CTAATTTTT CAAAGTAAAC GCTTCGGGCC CCGCGGGACA
51 CTCAGCTAAG AGCATCGAGG GGGCGCCGAG AGGCAAGGGG CGGGGACGGC
101 GGTGACTCGC CTCGCGGCAG ACCGCCGCC CGCTCCAAG ATCCAAC TAC
151 GAGCTTTTA ACTGCAGCAA CTTTAATATA CGCTATTGGA GCTGGAATT
201 CCGCGGCTGC TGGCACCAAGA CTTGCCCTCC AATGGATCCT CGTTAAAGGA
251 TTTAAAGTGG ACTCATTCCA ATTACAGGGC CTCGAAAGAG TCCTGTATWG
301 TAAHHHAAGT CACTACCTCC CCGGGTCGGG AGTGGTAAT TTGAGMGCCT
351 GCGCCTTCCT TGGATGTGGW AGHCGTTCT CAGGCTCCCT C

ug445

1 GAATTCCACA TCTCAAGAAA CTCAAAGAACAT CATACTGTCA AAGACAGGGA
51 GTTCCAATGA ATTCACTCAG GTTTCTCTT GAAGGTCAGA GAATTGCTGA
101 TAATCATACT CCGAAAGAAC TGGAATGGA GGAAGAAGAT GTGATTGAAG
151 TTTATCAGGA ACAAACGGGG GGTCACTCGA CGGTTTAGAT AATTCTTTT
201 ATTTTTTATT TTTCCTTCCC CTCAATCCTT TTTTATTTT AAAAATAGTT
251 CTTTTGTAAT GTGGTGTTCA AAATGAAAAT TGAATACTGG CACTCCATCT
301 CTTAGAACAT ATGAATTCTA GTGTTCAATA TTCATTATTG GTTGTAAAA
351 TTGTGCTGAT TTTVGTGAT CAGACCTCAG CCCCTTAATA CTGCCCTTT
401 GCCCTTAAG AGATTCATG TGTGCACAGA GAGGCCACCC TTT

190/472

ug446

1 GAATTGATT CACAGTTGCC CCAGAGCAGA GTGTGCCCTT CCACAAAGCC
51 CTAGAGGACT GGCAGTATGA CATGATGCCA GGATGAAGCT GTGATGTGGA
101 CGAGAAGATA GACCGGCTGG AGTGAGGGAG GGAACCTCAG CTTGGTCAGG
151 CCTTGCAAGT GAGGGCAGAC GGACAGGGTG ACCTGGCTAC TAGACTAGGG
201 TGGCATTCT TCTGAATGAT CCCTGTGCCT TCCCAGAGAA AGGTGGGAGA
251 AATAAAGGAC AGGGTGGGAA GGCAAGGGAG GTGACAGAGC CAGCTCCGTT
301 ATCTCCCCAG GCCTCCACAG CAGGGTATC TGTCAGTTCC ATGCACCCCA
351 GATCTGGGCC CAADCCTGAG GGTCCCCACC CT

ug447

1 GAATTCAAAG CAGCTATGGG CAGCAGCCTC CTACTAGTTA CCCCCCTCAG
51 ACTGGATCCT ACAGCCAGGC TCCAAGTCAA TATAGCCAAC AGAGCAGCAG
101 CTACGGGCAG CAGAGTTCAT TCCGACAGGA CCACCCAGT AGCATGGGTG
151 TTTATGGCA GGAGTCTGGA GGATTTCCG GACCAGGAGA GAACCGGAGC
201 TTGAGTGGCC CTGATAACCG GGGCAGGGGA AGAGGGGGAT TTGATCGTGG
251 AGGCATGAGC AGAGGTGGGC GGGGAGGGAGG ACCGTGGACT SGGGTAAGAG
301 CAAAACCTT CTCCTTTAT CTAATTTGT TTCATCCATA GGATTTCAA
351 TGGAAAGAAG GGACTGAAAG ACATAAGAAA TTTATCCAC TTTTCATGGA
401 CAATCTATT SDCAAGCTAT CTCCTAAAAC ATGGAAATGT CATTAAAGTG
451 CAGTTGCTT TTTCCCTGC CAGTAACCATTGTTGGCTG GGTGAACAAA
501 GAATGCTTG AAACTAGAGCT

191/472

ug448

1 GAATTCTTT ATATTCTTAT CCTCCCAGGA TTTGGAATTA TTTCACATGT
51 AGTTACTTAC TACTCCGGAA AAAAAGAACCC TTTCGGCTAT ATAGGAATAG
101 TATGAGCAAT AATGTCTATT GGCTTCTAG GCTTATTGT ATGAGCCCAC
151 CACATATTCA CAGTAGGATT AGATGTAGAC ACACGATCTT ACTTTACATC
201 AGCCACTATA ATTATCGCAA TTCCTACCGG TGTCAGAAGTA TTTAGCTGAC
251 TTGCAACCCT ACACGGAGGT AATATTAAAT GATCTCCAGC TATACTATGA
301 GCCTTAGGCTTTATTTCTT ATTTACAGTT GGTGGCTCTA TGGAGGT

ug449

1 GAATTCATCG GGAATAGTGG GTACTGCACT AAGTATTAA ATTGAGCAG
51 AATTAGGTCA ACCAGGTGCC TTTAGGAGA TGACCAAATT TACAATGTTA
101 TCGTAACTGC CCATGCTTT GTTATAATT TCTTCATAGT AATACCAATA
151 ATAATTGGAG GCTTGAGAAA CTGACTTGTC CCACTAATAA TCGGAGCCCC
201 AGATATAGCA TTCCCACGAA TAAATAATAT AAGTTTTGA CTCCTACCAC
251 CATCATTCT CCTTCTCCTA GCATCATCAA TAGTACAAGC AGGAGCAGGA
301 ACGHTGAACA GTCTACCCAC CTCTHGCCGG AAATCTAGCC CAT

ug450

1 GAATTCTTT TGGGATAGCA TTTGAAATGT AAATGAAGAA AATACCTAAT
51 TAAAAAAAAA CTTAAAAAT TAAAAAAAAA AAGGAATGTG TGCTGGCTGG
101 GTGGGTGAGT GATGCTGGGT GGTTGGTGGT GGTCCACACC TCTAATCCCA
151 GCTTCCGGTA GAGGTGGGCA GATCTCTGAG TTCCAGGCCA GACTGGTCTA
201 TAGAGCCAGC TGCAGAACAA CCAGGACTAC ACAGAGAAAC ACTGTCTCAA
251 AAAACAACAA CAAAATGTAT GTCTAGCCTC TTHGCCAACT CTGTACTCTT
301 AACTGTTGA TAAACTGAGT CATAGAAGAA GCYGTGAAAT CTATAATGCB
351 ACACTATGAA AGGACCAGGR AAGCGCCAGT CTGCCT

192/472

ug451

1 GAATTCTTA TGAAATATTG TGCATACTTA AATGAAGCTG GACTACAGTG
51 TTCTACGATA TCATCGAAGA TGCAACAATCC CCATTGTCTG TCTGGCCATG
101 GTCTTGCAG ACAAAATCAGG TTGACAATTG ATGGGAGCAG CTGTTCAAAC
151 CACGGCAACA CCTTTCTT GTAGCTACTG AATATTGAGT GTAAAATATC
201 CGACACTTTA GTCAGTATAT AAACATCATT ATCATCCTCA TCTTGTAGTG
251 ACTCTTCAAC CTGCTCGTCA TAGTCTTCAT CTTGTCTTT AACCTGCCGC
301 AACTCCTGAT TTTTGAAATG TKCTTCAAGC TTGCGCTTCA GGATGCCCTCC
351 CAGCTCCTCA AAGTGCTCAT TGTTGAGGCA CCCGTCTCCC ATGACCTCAA
401 TGCACTTGC AAAGGAATGC ATGATCTCCG AGAGGACATC TGAGTCGGGC
451 TCTGTGCCGA TGGCCTGAT GAGAGCMCGC ACATGAAGTG CCACATCTGT
501 GTAAGGTACC SGGACCCC

ug452

1 GAATTCCCCG GCTCGAGCAG CCGCTTTTT TTTTTWMWC TTTTAGTGGA
51 CCTGAGAGTT AAATCAAGGG CCTTGTGCAT GCTCACAGTA CACCTACTG
101 CTGAGCTATA TCTCCAGACC CAGAACATCTAT TTAGTTATA AATAACTTCC
151 TAATGCCTGT CTAATGATGC ATATCTAAA TAAGTAAATA TGTTAAATAA
201 AACAGTATTG ATTTTAGTT TAAGTAATAG GCTATCTGA ATTTTAGTT
251 TAAGGTAAAT CAAATAAAAT TAAGACTATA AATGAATCCT ACTTCTATTAA
301 TTTATCATAAC TGTATATTGA CTTATGCTTT TATATTTAA CATTGGCATT
351 CAAGTCATAT GAATCATGTA AAATTGGCTG CTTTAACTA TTGTAGTTG
401 TTATTTGAGT GGTATTCTAT GTTGCTTAGA TTTTAACGTG GCCATGTGTT
451 TTATAGTTA TATGGTTTA TCCTGATTAT CTTTTGTAA ATGTGGGAGC
501 TAAGAACTTA AAGAATTG AAAATCGA

193/472

ug453

1 GAATTACTGA TTTGTGTTGC TTTAACAAACA GCAGACTCAT ACATCTCCTT
51 TTTAGTRGGC TGAACCCTGT ATCTGAATAA TAAGGGATCG ATTGCATCTT
101 TCTTCTTCCC ATGGTGAAAA GACTGCTTG TGTTCCGAG TCGTCACTGT
151 CCCTGATGAC AATCGTCTCT CCATCAGCAC TGCTCAGGTG THCGTTAGCA
201 AAACCATTCT GATGTAATGG AGGGAGGACT TCCAAGATTCTACACTGCWG
251 CCTTGTGCCA TTGTTCCGA ATGACTTCCA CAGTCTCTTC AACAAAATAT
301 CGGTCCCTTGA CATAGGCAAA GATATCATCA CAGATTCAT GCAADCGTGA
351 ACACGAGTAA GGTTGGTCAG GTATAAAACG GAATAATTAG TGGTTC

ug454

1 GAATTCTTA CAGATGATTG TGAACAAACCA TGTGCTTGT AGGAATAGAA
51 CTCAGGACTT CTGAAAGAGC AGTCAGTGC ACCATCTCTC CAGCCATGTT
101 TTACCTGTTT ATAAAGTGGG GCTGTGTATT TAGAAGGGTG AACACAGTAG
151 AGAGAGTATG TTTCTGCGTC CTGGGCATT GTGAACTAGA TGCCCAGCGG
201 CTGGTCCTCC TCCATCCCCT CCTTCCTGTT TCAGTCAATT CTAGTGTAGA
251 TGGCATTTTT AAGTCCATGT TTTTATGTT TCTGGTTAAT GGTTATCCTT
301 CAGATGGTAA TTCTTACCCCT TGTATTTGGG CAGAGCAAAA AGGCTTGGC
351 TCTAGACTGG CCAGCAGTTT ACCTGGATAA RGGTACTT

194/472

ug455

1 GAATTCTTGG GGTTAGTGAG GTCAACTTCC TCGGAGTCGT AGTCTGAGAG
51 GATCCACGGG AAGACAGGGT ACTGCATGAG GTCATTGTAA GATCTGCCTG
101 CCAGCGTGT CAAGTGCATC AAATACTGGA AGTTGCTGAT TTCACCTCTC
151 TCCCCATCTCT GAGTCACAGA CTTCTCTCCA ACCAGAGTGC TGAGTAACCC
201 AGACCCTTGT TCCACACTGG TGTTTGGTCT CTGTCGGAC ACAGACTCCG
251 AGCTGTCCGT GAGAGAGGGC ACAACTGCCA GGAACCTTG GTAGACTTTA
301 TTCCGAATDC CCTTTGAAA AGCCAGGAGG TAGTTCCGTC CATCTCCAGA
351 GAAAACCTCA ACAGCGATAG GCTGGAGGAG ATATCTCCTT TTATGCACCT
401 CCTTGATGTC TTCATATGCA

ug456

1 GAATTCTTT TTTTAAAAAA TGACAATACA AAAGTACCTT TACACAATT
51 ATAAAAGCAT AATTGATGAT AAAGCAAGTA GGAGTCTCAC AGTCAAGTGG
101 CACGGGGGCT GGGGCCATGA GCAGTCCCTG AACACCAGCT TGGATGTCTA
151 AGTTCCCAGT GCTGCCTGCC CCCGTMCTCT AGTTACAGT GAAAAGGCC
201 ATATTCCAGG CCTTGGTGT TCTTTTTTA AACCTTAAA AACTTGACAT
251 TACTTCTCAT GAAAAAATAA TGAAATAACC CTCCCAAACM ACTGACAAAA
301 ATMATTAAAA WWTGACCTT TTTHAMCACA ACACAAGCRG ATCAAAAMCA
351 AAGGTTCCAA AGGATTG

ug457

1 GAATTCCCCG GCTCGAGCGG CCCCTTTTT TTTTTTTT TAAATTTTG
51 GTTTTCGAG ACAGGGTTTC TCTTATAGC CCTGGCTGTC CTGGAACTCA
101 CTCTGTAGAC CAGGCTGGCC TTGAACTCAG AAATCCACCT GCCTCTGCCT
151 CCTGAGTGCT GGGATTAAAG GAGTGCGCCA CCACGCCAG CTTATGGGAC
201 CCCCTTTCA TTGTAGTCTG GGGTACAAGT ACAGAAGCCC TTGAGGGGCT
251 CTGAACCTGT ACTGCCCA G

195/472

ug458

1 GAATTGCAC AGAGCATCTG TACATCCCTC AGAACTCAGA GTGAACATGC
51 TCAGAACATCTG GCTCTGACGG GTGATTGAA GAATCTGTGT TTGAAGCACT
101 TGACTCATCA ACTGGTTCAA ATGGTCGCAA GTTGCATAT GTCACCTCTT
151 GGGCTAGTTG CTCTAGGGAA GGGCGGCCATA ATAGCAGGTT TCGGAGTGAA
201 ATTGAGTCA TCAGGAAGCT GCGTCGAAAG ACGTAGAGCT TTCGCAGCAC
251 GAAGCGGAGA AATCGCTCAT GGAAAGGGCT ATTTCGCCTG CGTTCAATT
301 CTTGGAGCTT CCTCTGTCGT CTGAGAAAAG TTTGGACCAG AAGTGTGGC
351 TCAGGGCCCC TTTCTTCCC TTCCAAAG

ug459

1 GAATTCCCTT TACTCATATT TATCTCCTTA TTTTAAGAG ATTTGTTTC
51 TTTTAAAAAT CTGTGTGTGT CTGTGTGTGT GGAGTGTGTC AGAAAAGGCC
101 AGAAGAGGGT GTCAGGTCCC CTGGGGCTGG AGTTACTGGC TGAGGTGAGC
151 TGCCTCAAAC AGGGCTGGGA ACTGAACTCA GGTTGTCTGC AGAAACAGAA
201 AGTGCTCTTA ACTACTGAGC CACCTCTTR GCCCTCTGCC AATGTTAGT
251 CTAACCACTA TTTCTAAGCT TCTGGTTCTC TGTGTACAGC ACAGGAATAA
301 AAACAACATC TAAGGCTGGR AAARTGGCAC DCACCTTAA TCCAGCACTT
351 GAGAGGCAGA GGCAGGGGGA TCGAGGCCAG CCTGGTCTAC AGAGTAGTCC
401 AGGACAGCCA TGTAGAAAAA CTAATAATGA TAACAACAAC AACAAACCACC
451 ACCAAACCC

ug460

1 GAATWCGTGT MGTGGCTC GAACDGCCCG GAAGCDCCGC AGTCACCGAC
51 GGGACCAGAA GTGGCATGAC AAACAGTACA AGAAARWCA CTTGGGCACA
101 GCCTGAAGGC CAATCGTTG GGGGTTCTCA TGCAA

196/472

ug461

1 GAATTACTTT GATGATAATC CACACAATAT TGATGTGAAT AAATTAAGG
51 TGTAAATTTC CAAAGTATAA TTACAAAAAT AAAAGTAACA GACTGGAAGA
101 GTATTATTAA ATGGTCTACC AAAGATCTAT AAGCAAGAGT TTTGGGGAAG
151 AAATAACACT ATTTGTATT TCACTATATT CATTAAAC TAAAGCTTGT
201 AATCTCTATT TTTAAAATCA CATTATATCA CTTCTTTTT TTTTTTTT
251 GGGTTTWGT TTTTTTTWC GAGACAAGGG TTTCTCTGTA TAGCCCTGGC
301 TGTCTGGAA TCACTTGTA GATCAG

ug462

1 GAATT CCTGA GGAGTCCCTG GGTCAATGGC AGCAGAGGAG CTGCGGCC
51 AGATCACAGT ATGGCACTCA CACATTTCA AGCCAGAACT GAACAGAGGA
101 GTTCGTA ACT CGGTTTATT AGGCGATATT TTGGCTATAT TCAGTGTGGA
151 TAGCGATGCT TCAGAGCAA CACAAATCTA TGAGAAGTCA GAGGTAGCTT
201 TTATCATCTG TCTAAAAGGT TTAAAGAAC CACCTCTGT ATGTGAT

ug463

1 GAATTCGATG TGTGTCCTAC ATGCTGGTGG TTTTACCCCT ACCTGCTGCC
51 CATGCTCTT CCTGCTTCTC GGTAAGGCCG AGCAACAAAGG GTTACAGGA
101 AACCGAGATT CTTCCCGAGG CTCTCTGGG CTCCTAGTGA GGGACTCAGT
151 GAGCGGGAGC CCTTGAAAAA GAAGACGGCA GAGCTGAAGT GAAAAGCAGT
201 CTCTTCAGGA GGGATGTTCC CTCACCCCTT CACAGCACCA AAGTTCTT
251 GCAAAATAGG GTCTGAGCTA CAAAAGGGAG GCAGATGTGC TTGTGAATGC
301 AT

197/472

ug464

1 GAATTCCCCA CAGCAGAAGG GAGGAGACAG CCAAGAAAGA GTGAGCTGAA
51 AGTCAGGCCA GGATAAAGTT CTACCCAGAA GTGTCTGAGA GCCATCAAGC
101 CTTGTCCACC ATGATGGGCT CCATCCTCA AACCATAGCC AGAACAGGCT
151 CTTTCTCTGG TAAGTTGCTT CTGTCAGGAA ATTCATCTCT GCAATGAGTA
201 AAGTT CCTCC TGCACCTGCA GAGGATGGGC AAGCACCGGG GAGTCTAGGG
251 GTCATCCAGC CCACCTGCC CGCAGGBCTG AGCTAGACTG AGTGAGAAAG
301 GGAGCACAAA

ug465

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTT TTTTTTTTT TTTGTAAAAAA
51 GAAACATGAT TCTTTATTGA AGGAACAGCC GCCATACAAA GATCTATTGC
101 TTCCTACACC GCTACACTCA GAAGGAAGCC GAGAAAGCTA CAATAGGGSG
151 MGCATGCAGA ACCACAAACT GGAAAGCAGA GAGATCCTCT AAGGCACGGA
201 CTGGAGCCTG TTTCCCAGC CTCTATGTCC AGTGCCTCTC TCAGCCCAGG
251 GAGAGCAGGG GAAGGCAAGG TTGTTCTCTC CTGCACCAGA CACTTAGATT
301 TCTCTCTAAG AAGAAACCAC TTTCCATCC ACTGATTCT CCACACTGAT
351 ATGGAAATTG CTGCTG

ug466

1 GAATTCTTT TCTACAATGG TGCTCACAGA GACCTGCTTA CACTGTAGCT
51 GCTTAATAAA ATCCTTCACT TGCA TGACCA TGTTCTGAGC AATATTATC
101 TCCAGCTCAG TGTGCCTCCT CTTCATGTT TGCA GAGTTGGT GGTCA GATC
151 CTGCAGGTAA ATCCAGAGCT CGGCCTTCAG GCTCTGATC TCCTCCCAGC
201 CCTGAGTTAA GTTCTGTGCT TGGACCAGCC TTTGTTCAAT CAGCTGCTCT
251 GTTGCTGAA TATCTTTGC TGTGTTTTC ACTGAGGAGT TTGACAAGTC
301 ACACATGGAG CAAAGGAGAT CCAAGTAGGT CCTGGCCTGC TCTTGCAAAG
351 CTCTGAAGTG TTTGACCTGC TTAACAGCTT CTGC

198/472

ug467

1 GAATTCCCTC TTTAAAGGCT TTGTACAAAC AAACAGAGTA AAGTTTACCT
51 CCCAGAACCA CCTTTCCCAC ATGCAGAGGT AAGAAAATAC CAAAAGGGCC
101 CAAACGAAAT GTGGGTGGTG GTGTGACATA GGATAGTGGC AGTCTTCATG
151 CCTAAAACAG CCCTAGGTAG AGCCAGGTAG AGTGGCAAAC CCTGTAAACC
201 CAGCACTACG GGAGCAGACA GGTGTGAGTT CCAGGCCAGC CTGGGATCCA
251 GCAACACTAA GTCTTAAACT ATACATGCGC ATKCKCKCCK CACACACACA
301 CDCKCTGTGA AAGGGGCTGA GTAAGGTACA GACCTTAAT CCCAGCCTGG
351 GGAGGCAGAG ACAGGCCAGC CTGGTTACA AAGTGAATTG CMGGCCAGTC

ug468

1 GAATTCAATTACCTTCGCCT AGGACGTGTC ACTCCCTGAT TGGCTGCAGC
51 CCATCGGCCG AGTTGACGTC ACGGGGAAGG CAGAGCACAT GGAGTGGAGA
101 ACGACCCTCG GCACATGCGC AGATTATTTG TTTACCACTT AGAACACAGC
151 TGTCAGCGCC ATCTTGTAAAC GGCATGTG GGCGCGGCTC CCAACATCTC
201 CCCCTTCCT TTTAATAAGA GCAAATAGGC CACCCATATT AATGAGAGTG
251 GAGATAGAGG TCAAATCCCC AGTGTGTAGG TAAAGGAGCC ATGTACAGGA
301 TTAGCTCTTA GGCTCACAGG CTTTACCCA GAGCAACCCT GACCTGCTCC
351 CGTGTGTTT TTCTGGGGG AAGGGAACTA GGACACTGAA CCTTCATGAA
401 AGATGACATG TCTCCCTAGA ATAGGCTCAT AT

199/472

ug470

1 GAATTCAAAA AAAACAACAA CATTGGCTTA AGTCATCCT GATTTCACAT
51 TTAAAAAGAA TACTGGAGCC GGGCGTGGTG GCGCACVCCT TTAATCCCAG
101 GTCTCGGGAG GTAGAGGCAG GTGGATTCT GAGTTGGAGG TTGGCCTGAT
151 CTACAAAGTG AGTTCCAGGA CAGCCAGGGC TACACAGAGA AACCTGTCT
201 CAAAAAGAAA AAAAWAAAA AAAAAAAAAGAATCATGG GTCAGTGAGT
251 GGAGGTACTT ACCCTAAATC TGGCATCCTG AATTGATT CCAGGACTCA
301 CTGGTAGAGG GAAACMDCTG ACTCCTGCAA GTTGTCTTT GATCTCTATA
351 TGTGGGTTGT GGCATGTGTA TCCCTGATGG GCAATAATTCAACCAAGTAAA
401 TTAATTAAAA TATAAT

ug471

1 GAATTCCAGA AAGCACACAG CACAATAATC TTAAGCACTA TTGAGGAAAG
51 GAGAGCCCCCT GATCAGGCTA CCTTTGGTCT CTTAAAGGCT CCTGAGTACT
101 AGTGGGACAT GGAAACTCTC CATTACTGAG TTGTTTCAGT GTCATTCTAG
151 CTTCCTGATG AGATGGCATC TAATGGAAA ATGAACTCGC TTGGCTCCA
201 CAAGGAGAGG GGAACACTTA GCTGCTGCCT GTCTCTAAAG GCATGACTGT
251 GTAGCACTTC ACTACCCCT GAACTACTAG CATTAGAATC TAGTTCAAA
301 AGGAAGAACAAAGGRACCCT CGATTGCTAA CAGTATGTAA AGGTGCAGGC
351 GGTAGCAGGG AGGAGGACTG ATGTGTAGTA GCATGAAATC TGGAATGAGG
401 TTTTCATGAG AAGCCACACT AACTTATGAG TCAC

200/472

ug472

1 GAATTGGCG ATCCAAGCTTGCTGGTCTTAAGCAGG CTGACAATCG
51 TTCTTCCTA ATGAAGTGGG TTAATACTTT CTCCCTAAATT TCCATTGATT
101 CAAATGAAAAA CTTGGCTGT GTTCCAGGGG TGAAACTCC AAAGAGAGTG
151 TATTAATCT GATTCTTATT TTGTACGTTT AATTCTGGA CTCAGCACCT
201 TAGAAGCTGT GACTGGCTGT GTTCTTAGCA TGGCAGGAAA TACTTCAGT
251 GGATTTAAAAA AMVCTGTAGA AACGATGAGT AGTTGAGTCA CTACGTCTTT
301 TCAAAGCATG TTAAAACATC CTCCAGAAAT AGGTTTGCCTTAATCAAAA
351 AGCAAACAGC AGTTGGAGT TAGGGGCTGA AAATGAAAGG AGAAAGGTTG
401 AGAGCTATGA CCCAGCCCCGCC

ug473

1 GAATTGGCA GCATCATCCC TCCTGAGGCT TCCGTTGACA ATCTGCCAG
51 TCACTGGGTG GATTAGACCA GCTTGCAGAA TTCCAGACAA GTCCATACCG
101 AGAGCTCCTT GAAGTGAACG GATAGCACCA ATCTTAGGGG YGCDGGCACT
151 CACTGGAAA GGAGATGTGG CTCCGGAGA CCCCTTGAG GAGCAGGAGA
201 GGTCTATAGC TGACTCCCCA TGCCAGCCAT TGAGGACAAT

ug474

1 GAATTGTTT TTGAGACAG GGTTTTCTG TATAGCTCTG GCTGTCCTGG
51 AACTCACTTT GTAGACCAGA CTGGCCTCGA ATTCAAGAAAT CCGCCCGCCT
101 CTGTCTCCTG AGTGCTGAGA TTAAAGGCGT GCACCA

ug475

1 GAATTGGCG CCGTAGCCAT CATGAATGAC ACAGTAACCA TCCGGACCAG
51 GAAGTTCATG ACCAACCGTC TGCTTCAGAG GAAACAGATG GTCATTGATG
101 TCCTTCATCC TGGGAAGGCA ACAGTACCAA AGACAGAAAT TCGGGAAAAG
151 CTGGCCAAAAT GTTACAAAAC CACACCAGAT GTCATCTTG TATTGGATT
201 CAGAACCCAC TTCGGTGGTG GCAAGACCAC TGGCTKGGC ATGATCTATG
251 ATYCTTTAGA TTATGCA

201/472

ug476

1 GAATTCTGG TTGTGAGCCA CCATGTGGTT GCTGGGATCC GAACTCAGGA
51 CCTTTGGAAG AGCAGTCAGT GCTCTTAACC GCTGAGCCAT CTCACCAGCC
101 CCTACTTGTC AGATCTTGG AAATAAAACT CTCTACTTAT CCCTGAGGCC
151 ATTAGGTTG CCAGCCAGTG GCTATACCTG ACAAGCCACA GCATGGTCCC
201 TTATATAACA TGAAAGTGGG AACAAATAAT GAGACTACTA AAGGGAGGAA
251 CAAGATAGGG CAATGGTGGC AGGAAACAAA ATTGTTCCAT TCTCTCTCAC
301 AAGGGCAATC TAGGTTAAA AACAGTGAGT ATTTGTGTGA AACCAAAACT
351 BGAGAGAAGA AGGGGGTCAG TGAGAGAGGA AAGAGA

ug477

1 GAATTCTTC CTTCTCCAC ATACCGTCCA AAAAGAACAT GCATGGTCCC
51 CAGACCAGAA GTAACAACAC TGCCTAAAAA CTTGCTAGAA AAGGACAATG
101 ACCCCACCCC AGATCTACAG AATGAGAAAC TGTCTGGGTT TTAACAGACC
151 AGATAAGTGT GCTTTAACAA GCTTGAGAAC CTGAAGCACA CCATCCTTT
201 CAGCCGAGAA GCCACGAGGG GGAGTACAAC TTAACAGCCA TGGGTATCTG
251 TTATGCCAAG GTCAAAGGTA GCATCCTCTG AGGAGACTCC AGGGAGTACT
301 GGGAACMACA CTCAGAGGAG AAATWACCAC CACAGAGCAG GAGGGAGAAA
351 GAGAAGTAGT GTATTAGGAC ACCAAAGAGA TAGAGTCTCC CAGGATTGAT
401 GCTGGCTTAG AAGCCAGAGC AAAAGATATC CMGTGTTGTT ATCTTTC

ug478

1 GAATTCCATA AACCCAAATC TCTGCCAGG GTGATGGTA CAGGCAACCC
51 CTCTTGGTC TCCACCTAAC AGCCCCTTTC TCCTGCAGTA TGAAGCACAT
101 CTCTGTCT CTGCTCATCT TGCAATGCCGA GGATGATCCA GTTGTGCCCT
151 TTCATCTCGG TAGAAAGCTA TACAACATTG CTGCACCATC TCGGAGTTTC
201 CGAGACTTCA AAGTCCAGTT TATCCCCTTT CACTCAGACC TTGGCTACAG
251 ACATAAATAC ATCTACAAGA GCCCAGAGCT TCCAAGGATA CTGAGGGAAT
301 TCCTAGGGAA GTCGAACCC

202/472

ug479

1 GAATTCTCGC ATTCCCTCCTC CTCCGCTCGC TCTTCCACCT CCATCTCCTC
51 CTGCTCTGCC CGGTCCACGT CGTGGATGCC CACCAAGGAGA CTGTAATCCA
101 TGATCTTCAG CTGGGCCAGG AACTCAACGT CCCGCTTCAG TTTTCCAGG
151 AAGTTCTTT TGCTCTCTTC TCCCACGTGC AGCTTCTGCC CTTHGTTGAG
201 GAAGTCATTA TCTTGAAAG TTGGCAAGTC CTTAGCCTT HHCTTGTAC
251 HGTTCTCTG GCAACAGTGG AACCCCTTCAG G

ug480

1 GAATTCCCTT TCTTTTTCT TTTTCTTCCT TCTAATCTCT CCCCAGGTAT
51 TCCTACCTGA CCTTAACCTT TCCTGGGTT CAAGACCCTT GGAAAGGCCT
101 GTATACTTAC CGTTTCTCCT TGCTCCTACT CTCTCTCCCC GCTTACTHC
151 YGATAGACTG TCCTGAATT CCTCTAGAAT TTTCAGCCCT ATCTTAAGCA
201 CTATATAACA WGTGAAAAGG RACAAAAGGG CKTCTAACAC TAGAAAAATT
251 TAAGGCCAAA CATAACTTGT AAAGCCATT TCCACTTAC TTCTGATAGA
301 C

ug481

1 GAATTCCCTT CTTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC
51 CTTTCCCT TCCTTCCTCC CTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTCGGC TTCTGGTCC TCCTCTTTT CTCGGCTCT TCCTTCCTC
151 CTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC
201 ATTTCTGACT TCTCATCTTC CMCTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTGTGT TGGACCTGA GCTTGGGGGC CTCGACTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTCCCC C

203/472

ug481

1 GAATTCCCTT CTTCCCTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC
51 CTTTCCCCT TCCTCCTCCT CTTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTCGGC TTCTGGTCC TCCTCCTTTT CTGGCCTCT TCCTTCCTC
151 CTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC
201 ATTTCTGACT TCTCATCTTC CMCTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTCCCC C

ug482

1 GAATTCCCGG CTCGAGCGGC CCCTTTTTTG TGGGGGGGAG ACGGGGGCTC
51 AGGGTGTGAA CATGAGGTGA GACCTGGCAT GGCAGGGCTG AGTCGTGCCT
101 GCTGTCAGCC CCTCTCTGTC CTTCCCGAGG CTGAGGGGGR ACTCAAGCTC
151 CCTTCCCCAG CAGAGCCAC CCACCCACCC HGCCTCAA GCCCCCTTG
201 GAGAGTTAAC TGTCCGTGTG AGGCGCTCAC TCAACCAATA AGCCCC

ug483

1 GAATTGTAT TTAAAATGAC CACTTCAATG CAGGAACCTG CCGTGCCAGG
51 CACTTAGCAT GCTGGGCATT TGGCTCTCAG CTTGTCCAGA CGCTACAGCA
101 GCAGCAGCAC AAGTCTCAGG ATCATCATGA GGCTGAGTCA CAGGAAGAGG
151 AAGACAGAGG GACAGTCACG CTGATGGACA GGCCTGCTGT GTACTGCCCT
201 GTCATGTCCC TGTGCTGTGG GCTCTGAGGG CTCTGTACM GCCCTTCTCA
251 GAGGAAGCAA GGGGGACTCA TTTTACTGTG TCCCAACTTC CCAGATGCAA
301 CTTGAAAATA TTCCCTTAAR WTGCAACTA GACCAGCAGG CATTACTTTC
351 TTGGACCTCT TAAATCTCAC AMCCATTATG GTGGCCAGGA AGAAACTGTA
401 AACAAATGACA CTTTGACATC CCGTTGTCA TGGAGACAC

204/472

ug484

1 GAATTCTGAA TCCACTAATA TTTATGGGTG TTATCACAAG TATAACAATA
51 AGATGGTCAA CTACAAAAAA CAATAAAACA GTGCCAAA TAGCAGCGTA
101 CCCCTACGTT AGCACAGCCA GGTATAAAGA TCCGTAGCCA CACCAAACTC
151 TACAACGTAC TGTTAAGTGG CATAACAGTA AATAGAGGAA CAACCCATGT
201 TCAGGGATTAGTGAGAGGGT CCAGATGTTA GAAGCTGCRC CTCTCCCCA
251 CTCCTTGACTCACTCCATC ACTTAATGCA ACTAAAGCGT GTTCTTCTT
301 CCTTTCHCT CCTATCTGAC AATGTATGCT GATATTAATT TGAAGVCAAT
351 AGCCCCAACT GCCTGAAAAA CAAAGAAGTA TTATGAGTTG TTTGAACACA
401 TGGGKATTAA AAAAC

ug485

1 GAATTCGCGC GCTGTCTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC
51 GGCGGCCATG G

ug486

1 GAATTCTTCT CGCGTGCCTC TCACAATACA GCTCCCCCTC CACGAAGAAG
51 TAGCCTTCT GCTTGAGGTT GAGGTTACAG TCGGCACACA CAAAGCACTC
101 GGGGTGCCGG TACTTATCCC GGGCCTTGAC GACAGCACCT ACAATACCAC
151 TCCCACACTT GTCACAGAGC GGCATCCTCT GGGCACTGCC AGCCCCACCG
201 TGGACTTTCG TAACCAGGAGC CCTCACGCTT CGAGTTCCAG CGGGACGGTC
251 ATCAGGCCCG TCATTACCA GATCCTGCAG CACCTGAAG GAGCCCGACT
301 GGCGAGGAGC VGCTGGGTCA TCCCGGTTGT CATGGAGCAT CGGTACACGT
351 CCGACTGAGG GGGCACTGAA GCYGTGGGGT CATTTGCAG TGA

205/472

ug487

1 GAATTGGT TGAATATGCT TGGCCCATGT GAAGTGGCAC TATTAGGATA
51 TGTGGCCTTG TTGGAGTAGT TGTGGCTTG TTGTAGGAAG TGCACTCACT
101 TGGGGGTGTG CTTGAAGCT CCGCRCAGTG GGAAAGAGAC CCTCCTAGCT
151 GCAGGGGCGA AAGTTGTTCTGGCTTC TTGGATGAAG ATGAAAATT
201 CTCAGCCCCT TCADGCCAT GCCTGCCTAG ATGCTGCTGT GAGTCCTGCC
251 ATGATGATAA TAGACTAAC CTCAGAACCG ATAAGCCAGT ATCAATTAAA
301 TGTTGTCCTT TATAAGAGTH GCCTCAGTCA TGGTATCTGT TCACTGCAAT
351 GAAACCCTAA GTAAGACACT AACAGAAACT ATAATCATT GAGGAGAAC
401 ACAATTGAGA AAATGCCTCC ATAAAACGG TGTG

ug488

1 GAATTCGAGA GAACGAACTA CCCAGCAGCT CAGGTCAAGTC ACCTTCCCC
51 ATCCCCTACC CCTGCCTGCA GGTTTGTTC ATTGTGCTGA GGAATGTCCC
101 TGCCTCTGGG ATGACATCCA GGTGGTATAA ATGGAAAAGT GACAAATTAT
151 TCCTTGCTC TAGTGTAGGC ATTGCTGTAA TTAGTAGCAA GTTGGAACCT
201 TAGGAAAAAA AAATCTCACC GGAGTGTGAA GATGCATTCT AATCCTCAGT
251 CTGCAGAGTA AATAAAGTGT CACACCAGTA GCCTDCCCGA GGCCACTTCT

206/472

ug489

1 GATTCAACAC TCCTCGTCCC CATTCTAAC TGCATAGCCT TCCTAACATT
51 AGTAGAACGC AAAATCTTAG GGTACATACA ACTACGAAAA GGCCCTAACAA
101 TTGTTGGTCC ATACGGCATT TTACAACCATTG CAGACGC CATAAAAATTA
151 TTTATAAAAG AACCAATACCS CCCTTTAACAA ACCTCTATAT CCTTATTTAT
201 TATTGCACCT ACCCTATCAC TCACACTAGC ATTAAGTCTA TGAGTTCCCC
251 TACCAATACC ACACCCATTAA ATTAAATTAA ACCTAGGGAT TTTATTTATT
301 TTAGCAACAT CTAGCCTATC AGTTTACTCC ATTCTATGAT CAGGATGAGC
351 CTCAAACCTCC AAATACTCAC TATTGGAGC TTTACVAGCC GTAGGCCAAA
401 CAATTTCATA TGAAGTAACC ATAGCTATTA TCCTTTATC AGTTCTATTA
451 ATAAATGGAT CCTACTCTCT ACAAACACTT ATTACAACCC AAGAC

ug491

1 GAATTCGTT TTGTACTGTT AACATTAACA ATTTTTTTTTTTAATTCA
51 AAAGATTCCA GGCTTCTTG ACACTATCTT TACTCTTTAT ATACTCAGGA
101 GGTGGTGCTC CAAGGGCAAA GAATATTACA ACWGACTTAG CCAATTAAAC
151 TGCTCCAGCT GGGAAATACAC TCTAAACAGA ACCCCTACAA TCAGAGTCCT
201 ATGGCTCTCT CTGAAGAGCA ATGTAATCA AACATTAGCA CATTCTATT
251 ACCTGCTTAA ATGTTCGAAG TCTATCCAGT GTCCTCTGTC TCTCTGGCT
301 AACCCAGGCA CTTTTCTTT CCTCTTCATC ATGCAATTG TCTCTCTTA
351 TTTGTATTGT ATGATGGGCT CTATATTCACTT CTTCACTCTG AAA

ug492

1 GAATTCGTGG GTCAGAAGCA GCTTCATGT TAGTTCTTGA TTTCTACCTT
51 ACTGAGTTM CTGTTATTAT ACTACATACT CCAGACTAGC TGGACCCTTG
101 AGCTTCTGGC CAGCTCCTCT GTGTCTACCC CAACCAGCT GTACGAGTAC
151 TGAGATTACA TACTTGCATC ATTGCACCTG GCTTCTCACT CGGTTCTGGAA
201 GWTCAAACCTT GGGTTACCGG CTTGCAGTAG CAAATGTTTT TACC

207/472

ug493

1 GAATTGCTA TTTATATATA AGCGATAATA TGGGTTTGT A CATTAGTTT
51 TAAAAAAAGGG AAAGTTTGTTCTGTATATT TTGTTACCTT TTACAGAATA
101 AAAGAATTCA ACATTAAGAA CCATGTAACC GAGACACTTG ATCTGACACA
151 GGGGCMGTCG GGAA

ug494

1 GAATTCTTAG GAAGTTAAAA AAAAATAGTT TTGTAATTAA AGTATAAAC
51 AACATAGGCA ATGCACACCT TGTCAATCAC TGGAGTAGGA TCATTGGATT
101 CAAATCATAA TGTGGATAGG ATAGGGAGGA TGAATTACCA GGATTCATG

ug495

1 GAATTGCTCTCTGGGT CTCTGAGGGC GGGCACTGCK CTCACACGTG
51 GGCACACAC

ug496

1 GAATCCHTATTAAAAAAGA TTGGTCCTCA AGATGTTCAT TCAAATTATT
51 CTTACATACA CGACTCTGAA ACTTTCCACA ACTGCATTT TACCTAAAAA
101 TCATCATAAA CCATTCAATT AAGCTAAATT AACYGGTCTC HGTAGAAATG
151 CTACAAATAC AAAATACTAC CTAGTCYGAT TTTACAAATC AAAT

ug497

1 GAATTCCCCA TGTTGTGATA ATTATCCAT GCATAGCTTA CTATGGCAGC
51 TTTTGTATG TGGTACCAATT TACCACTTAC TTTTTTATT TTATGTATAT
101 GAGTACACTA TAGCAGTCTT CAAACACCCC AGAAGAGGGC ATCAGATCCC
151 ATTACAGATG GTTKCAGCCA CCATGCGTTC GGGACCTCTG GAAGAACAGT
201 CAGTCCCTTA ACTGCTGAGT CATCTCTCCA GCCCTGGTT CTCACTCTTA
251 AGAAAAAAAAGA GCAGTAGTCT TAGTATCAAC TGTGAAAAAG GTAGATGTGG
301 TTAGTAGTAT TACYGAAAC

208/472

ug498

1 GAATTGGAT TTTTAAAATT ATGTGTATTT GTGTGTGTCC CTATGAATGT
51 AGGTGCCTAT AGAGGCCGGA GGTATTGCAT GTCCTGGCCT GACAGAGCGT
101 TGTTTGTGAC CGGCTAGACG TAGGTGCCAT GGCTTGAGA AGAACAGGAT
151 GGTCTTGTCT CTGTCTCCAG CTCCCTTATTA ATCTATGAGG GCTCTATCTG
201 CATGAACACC TACATGCCAG ARRRGGGCAT CAGATCCCCT TACAGGTGGT
251 TGTRAGGCCAC CATGTGGTTR CTGGGAGT

ug499

1 GAATTGAAC CCTCTATCTA CTATCGGAGC CTGAGCGGGA ATAGTGGGTA
51 CTGCACTAAG TATTTTMACG AGCAGAATTA GGTCAACCGG TGCCCTTTGG
101 AGA

ug500

1 GAATTCCCCA GTCAAAGTTT GTAAATGGGA TCCCCATGAG AATGACTTCM
51 GTGGAGCAAC CGAGAGAYGC AGAATTCCAA CCCCACCTCTA GACTTACTGG
101 MTCAGAGTCT TCATAGGCTC AGCCCAGTGA CCCCTGAATG TAGCTGTGTC
151 TGAGGGAGGC TGTTTMCCA ACTCTTACVC TCCCTCAGTT GGSCAGSCTT
201 TTTTACATTCTTGACTTCTA ATCCCCATA TGGAGACCTC CACCGCCTAC
251 ATTTCTAGGA TGCCTTCCT CAGTTCTTT AAAAAAACAA CAAAAAAAC

ug501

1 GAATTGTGA TACCTGGCTC CTAGGTGACG ACCCTCAGGC GTCTGAATAC
51 TTTCTTCTCT TTATTACACA GGCCCACATT CACAATTACC GTTGGTAGCA
101 GACGAGACTA GATCTCGAG CCCCTGACAA CATACTACT TCAAAGCTAG
151 CAGAATGAAG ATRCVAAATG ACTGTGTCA AAAAGTATCT TCTGTCACTCC
201 TGATGATAAA GCATTCCCTC AACTCATAGT TCCTATTAT GTATAGAGCC
251 TAACTCCTTC ACTGCCTCTT TGTTCTATAA AAGTCCAGG

209/472

ug502

1 GAATTCCCGG CCCAGCDCCG CTTTTTTTTT TTTTTTYCTC TAGGATTTG
51 ACATTGCTGG TGAGTTKAC CCAATGATCC CTGATGCAGA GTGTTGAGG
101 ATCATGTGTG AAATCCTAAG TGGACTGCAG CTGGGGGACT TTCTCATTAA
151 GGTGAGGCTA GTCTTGACA TAATAAAGGA GAAGTTGAA TTTKGCTGT
201 GAAATTGTCT TAGTATTGAT TTAATGAGTC AAGAAATTAA GAGATGCCA
251 TTGTTTGAG GGAADGGCAT TGATTGCCAA GGACATAGGT TAATTATATT
301 GRGTT

ug504

1 GAATTCGTTA TCAAAGTGAC ACAGCCCACA GGGGACAGAG AAGGCCAAG
51 GACTCTCAA ATTCAAGTG CATGAACAGT CAGCACACTG ATAACAGCAA
101 GCCTCTAAGG GATTGGTAA CCTCACTGCC TGATCAGCTA CAAAAACTGG
151 ACAGAGATT GATTATGGTA CAGAGCAGCA TATTTGGGTG ACATAAAAAT
201 GTCACCAAGT GDAAGCAATT AGAGCATCCC AACCTAAATC CATTGCAAG
251 TCCTAAGAACAT CTACATGAGA AGACTATTGA AAAATATTTC

ug505

1 GAATTCTCC AATCTMCACC TATACTTMAA AATCATGAAT CTGACTAGCC
51 ATGCCATTGA AAACCACCTCA GTACTAGAGG ATGAACCAGT TTTCAATGTT
101 ATCAGCCCTG GAAAACCGCC CAGCTCCDC CCCCAGCACA TTCTATTG
151 TTTTAACATT TTATAAAAT

ug506

1 GAATTGAGG AATATCAACT TAGTGCTATT TTCACATCGT TCAGTCAC
51 TTAGCCAGAG TTCCAACCCCC TACTTAAAT TCAACTAGAA AGTTACCTAC
101 CAAGTACTAA TTAGCATTAT AAMGTCAGAG CCTGCAGCTC CAGGCCTTC
151 AGTTAGTTGT TTACTAGAAA GGACAGTCTT AAGCCAGATA CAGTTCTCA
201 TAAGAAAGTT AAAGAATCCA GTGAAGCAAG TTTTTCTTT AGCCCTAGAT
251 TCCCGGCAGA CTATTGAGCA TAGAT

210/472

ug507

1 GAATTCTGG CTTGGTCCAG CTGCCCTTC TTCTCHTCTG TTCTTCCTCC
51 TCCTCTCCT CCTCACTTCC CTTGGCTGCT TTTCCATTCA GAGAAGCTGG
101 AGTCCATTGG CCT

ug508

1 GAATTCGTAA ATGGCACTGT AAAAGGGCAT TTATCAACAT AACAAATGTAA
51 CACCTAACAG AAAAGTGTGA ATTGGGATC AGAAAAATTC AACGTTAAT
101 TTGTTAAACT TAAAGCTGTC ACTGGATATA GAAAAATAAA TTAACTTAGA
151 TTACTTTAAA GATCTACTGT CAGTTAACCC TCCACATATT TTTTTTAATA
201 ATTTAACCAAG CTTGTCTAAA

ug509

1 GAATTCCCAA AGTGGGAGGA ATGTTAACAC YCGATAGAC ACCAAGAAAG
51 AGAGTTGGGG GCTAGAGAGA GGCTCAGTGG TTAAGAGCAC GACTACTCTT
101 CCAGAGGTCC TGAGTTCAAT TCCCAGCAAC CACATGGTGC TCACAACCAT
151 CTGTAA

ug510

1 GAATTCTGCA TATCACATAG TTAATCCAAG TCCATGACCA TTAACHSGHC
51 CCTCHHMCTC CTTCTAACAT CAGGTCTAGT AATATGATT CACTATAATT
101 CAATTACMCT ATAACCCCCG CCTACWCACC AATATCCYCA CAATATATCA
151 ATGATGACGA GACGTAATT GTGAAGGAAC CTACCAA

ug511

1 GAATTCGATC CTTTGAGCCA TACAACGTGT TTTCGCTTTA AAACAAAGCA
51 GACACTAATA AACCACCGTA TAGATAAAGG ATAGAAGAATT

211/472

ug514

1 GAATTCTGG CTTTTTTTTT TCTTCATTT CTTCGTCATC ATCGTCATCC
51 TCGGAATCAC TCCAGGDCWC GTAATTATYC TGATTCTGT TATTGTCACT
101 CAAC

ug516

1 GAATTCGCGG TCTCAGGGCT TGTAGGCTGT TTTATGATTG ATGTTCAAG
51 ATGCTGAAGT TAGGTTCTA TGTCAAGAAA TCGTAGGTGC ACCTGAATTG
101 TGTGAACAGG ATGTCTTGTG GACTTCAGAC CTTAGCCTAA GCTTGTGTTG
151 AAAAACATGT CCCCCGTTGG AAAAATGCTA TGTCTGGGA TCTTACCCA
201 AAGGACCTAA GTTACATTTA TTTAGTTTT TCTTGAGACA GCTTAGGTTG
251 GTCTTAACT TGCAGCAGTC CTCATACTTT GGCTCTTCA TGCTGGGTT
301 AAAGTGTGTC TCATCAGGCT CAGACATATT CTTGGGAGGT AGGAAAGAAA
351 GCATGSGGCA GAGAAC

ug517

1 GAATTCGGAG CACTTACCAT CTGCCCTCAG GAATATACTT GCTGCACCAC
51 AGAAATGGAA GACAAGCTGA GTCAACAGAG TAAACTGGAG TTTGAAAACC
101 TTGTAGAAGA GACAAGCCAC TTTGTGAGGA CCACGTTGT GTCGAGGCAC
151 AAGAAATTG ATGAGTTTT CCGAGAGCTG CTGGAAAACS CAGAAAAGTC
201 CCTAAATGAC ATGTTGTCC GGACCTACGG GATGCTGTAC ATGCAGAATT
251 CAGAGGTATT CCAGGACCTC TTCACTGAGC TAAAVCGGT A CTACACAGGG
301 GGTAACGTCA ACCTGGAAGA GATGCTCAAT GACTTCTGGR CTCGGCTCCT
351 GGAGAGGATG TTCCAGCTGA TTAACCCCCA GTATCACTTC AGCVAGGACT
401 ACCTGGAGTG TGAAVCAAG TACACAGACC AGCGAAGCAT TTGGAGA

212/472

ug518

1 GAATTCATCA GAGGTTGATG TAACCCCTGG TTTAGCTAAA TTTTCCGTT
51 TAGATTCAAC TTCTTTCTTC CCTTCTTCT TATCTGGTTC TTTTCTTGGC
101 TTCTCTTCTT CCTTTGGCC TTCTTCCTCT TTTTAAGCT GCTTTTAGG
151 TTGTTTCTCC TCTGGTCCCT TTTTTTACT TTTATCTTCA TCAATAACCA
201 TGTCACCGTC TGAAGGACAA GGCTGCTTA CCACTTTAGG TCTGCCTCTT
251 GGTTTGGGAA TCTTGACTTC AGTAGCTGCA GGTGTCCTC TCTTAGGACT
301 TGCTTCACA TTAGAAGCGG TTGCTGCAGT CACCATTCCC GCCTTTCAG
351 TGTCTACTTG TTTTCAGCC TT

ug519

1 GAATTCTTT TTTTCCCTT TTTTAATTTC CCACAGGCC TCTGTGTTG
51 AGACTGTGCC CACTAGTCTG AAGGTTGAGA GGATTATTC GATTGGCAAT
101 TAAGACACAA GGGCACCTG GTGGGCACAG CGCCCACCTA CTCTTCATA
151 TGCAGTTGTC TGCATAATTG TGCAAATGAG AAAAAAAAGA TTTATTCA
201 AGAAGAAATG TGTAGCGTGT AGAGATGGCT TAATTGAGT TCCTCGGGCA
251 GGCCGGCTCS CTGGGGCTT TCTTCATCTT CCCTACTGAC CCCCATCACA
301 AAGGGATGAA GATGCCAGA TGCCAGGGAA GGGCTGCTTG GTCCCTGGCA
351 GGGCCACTGA GCCCGTCAC GG

ug520

1 GAATTGGCA TGACCAGTGT CATTGGGCCT GTGAGATGAC CAAGAGTCCC
51 CAGAGTCCTG GGGATAGAGA GCCCTCCATC CTGGGAGTGG AACCTTATG
101 GTGTGTTATC TAGTTAGCAG GAAATGTTAG AGACCACAGT AGGGACAGGT
151 GAAAGTCTGT TGCCTCACAG GGTCTGACAC TGATGGAGCA GATTGTGTCA
201 ACAATGTGTC ACAGGAATGG AAAGAATGTG CCCTGAGCCC ACCTCCCCAC
251 CCCACCCCAA AAAACCCAT AAAACCAAAA ATCAAATAAA TGAATAAAC
301 CACACACACA CAC

213/472

ug521

1 GAATTCAATTG CCTTGAGATA GGGTCTCAAG TTGAATTTAG AAGTACGTAT
51 TGGATAGGCT AACACACGAG TTCTTTGAT CTCTACCTGG KCCCAACGTT
101 AAGGTGTAAGG CCAGCTCAGC CATGCCTGGC TTTTCATGG GCACAGGGAG
151 ATTCAAGCCC TCATGCTTAC ACAGCAAGCA CCTGTAGAAT TTTAATCCAG
201 CAACATGGCT GCTCCAGCGA GGGATCACAT CCAAAGGCCT TCTAGGTCTA
251 TGTGATCCGB CTGGAGAATT CCACCACACT GGC

ug522

1 GAATTCCCTTC AGAACAGTCA TTTACATTTT TCTTATTTTA TAAAAAATAAT
51 AGTTAAAAAA AAAACCAAAAC CACAACAAAAA ATCACATGTT CACAGTAGAG
101 GGTTACTGTT AGGTTTAAC ACTGTTCTTC ATGCCGTTTC TGCGAGCGTAA
151 SAGCAAACAA ATCCACAAAC TTAGACACCC ATATCTTGGG GGCTGGAGTG
201 ATGCTCAGCA GTTAAGAGCA CTGACAGCTT TTWGTCTGA GTTCAAATCC
251 CAGCAATCAC ATGGTGGTTC ATGACCATCC GTAATGAGAT CTGACCCCCCT
301 TTTGTGGTGT GTCTGAAGAC AGCTATAGTG TACTTACACC CA

ug523

1 GAATTGGCG CCTTCCTTTA GACGCATCCC CCGGGCCCT GAGGAGTCAG
51 CCCGCTCACT CCCGGCGAGG TCCACCAAGC TGATCTTACT GACCTTTCT
101 GAATCCAGGC CAGTAAGCTG GTCATGGGAT CGCTGGTAA AGACAATAGT
151 AAAGACGGCA TGGGAGCGGC TGCTGGTCTC GTTCATGTTG GTGGCAGCCA
201 CGGTTCTTGC CTTATTTCCA CAGTCCATGA GGTCGGCAAT GTCTGCATAG
251 GAAGTCACAG CCAGTTAGA CAGGTCTTGC ACGTACGGGC CTAGGATGGG
301 GTGCTCCGG ACCCGCAGAG AGCCCCGACT CTTGGGGTT CAAGAGGTCT
351 CGTACYCCTC GCAATAGATT TCC

214/472

ug524

1 GAATTCTGAAG AAGATGATGA TGATGAATAA GTTGGTTCTA GCGCAGTTT
51 TTTTTCTTGT CTATAAAGCA TTTAACCCCC CTGTACACAA CTCACTCCTT
101 TTAAAGAAAA AAATTGAAAT GTAAGGCTGT GTAAGATTTG TTTTTAAACT
151 GTACAGTGTC TTTTTTGTA TAGTTAACAC ACTACCGAAT GTGTCTTAG
201 ATAGCCCTGT CCTGGTGGTA TTTTCAATAG CCACTAACCT TGCCTGGTAC
251 AGTCTGGGGG TTGTAAATTG GCATGGAAAT TTAAAGCAGG TTCTTGGTGG
301 TGCACAGCAC AAATTAGTTA TATATGGGGA CAGTAGTTG GTTTTTGTT
351 TTGTTTTTTT TTTTTTTCT TTTGGTTTC TTTTTGGGT TTTATTTTT
401 TTCATCTTCA GTTGTCTCTG ATGCAGCTTA TACGAAGATA ATTGTTGTT
451 TGTTAACTGA ATACCACTCT GTAA

ug525

1 GAATTCAAAC TAGAACCCAA GTCACAGCAT TTTCCCACAT AACTCTGAGG
51 CCATGGCCCA TCCACAGCCT CCTGGTCCCC TGCACATACCC AGTGTCTCAC
101 TGGCTGTGTT GGAAACGGAG TTGCATAAGC TCACCGTCCA CAAGCACGAG
151 GAGATATCTC TAGCTTCAT TTCTGTTTG CATTGACTC TTAACACTCA
201 CCCAGACTCT GTGCTTATTT CATTGGGGG GATGTGGGCT TTTTCCCTG
251 GTGGTTGGA GTAGGCAGA GGGAAAGTTAC AGACACAGGT ACAAAATTG
301 GGTAAAGATG CTGTGAGACC TGAGGACCCA CCAGTCAGAA CCCACATGGC
351 AAGTCTTAGT AGCCTAGGTC AAGGAAAGAC AGAATAATCC AGAGCTGTGG
401 CACACATGAC AGACTCCCAG CAGCCGGGA CCCTGCTGTC TTCTCGACTC
451 TTAGGGCGTT TCTTCCATG TTTGGCTGTT GGKTTAGTT TTGGTGAGCC

215/472

ugs001

1 aaagtattgt gttaactcat tagtctggaa aagcaactaa aaaagtttag
51 tgtaaataca atagaatgcc atattgttt ataaaaaagg aggtggactg
101 tgtgactgac tgtgatacag tagggtggca agggcgaggc agccatcatt
151 acgtgtgagc agcgacctca ctgacactac actgctgaac ccaaacagta
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ugs003

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216/472

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217/472

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218/472

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219/472

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220/472

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221/472

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222/472

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223/472

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224/472

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225/472

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226/472

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227/472

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228/472

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229/472

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230/472

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231/472

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232/472

ugs088

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ugs092

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233/472

ugs093

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234/472

ugs100

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235/472

ugs104

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236/472

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237/472

ugs113

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238/472

ugs117

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239/472

ugs121

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240/472

ugs126

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241/472

ugs131

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242/472

ugs136

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243/472

ugs140

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ugs144

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244/472

ugs145

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245/472

ugs149

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246/472

ugs153

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247/472

ugs160

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248/472

ugs164

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249/472

ugs173

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250/472

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251/472

ugs181

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252/472

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253/472

ugs192

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254/472

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255/472

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256/472

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257/472

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258/472

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259/472

ugs221

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260/472

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261/472

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262/472

Horizontal Pools →									
Vertical Pools ↓	297	298	299	300	301	302	304	305	E16
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	323	324	326	328	329	330	331	332	E13
	333	334	335	337	338	339	340	341	E12
	342	343	344	345	346	<u>348</u>	350	351	E11
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	360	364	365	366	367	368	369	370	E9
	E1	E2	E3	E4	E5	<u>E6</u>	E7	E8	

Fig. 2

263/472

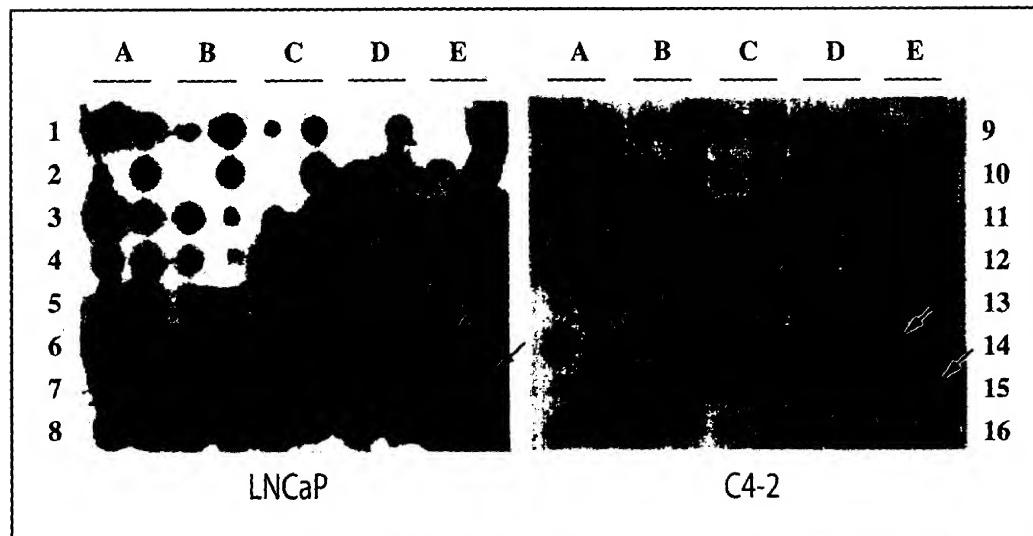


Fig. 3

264/472

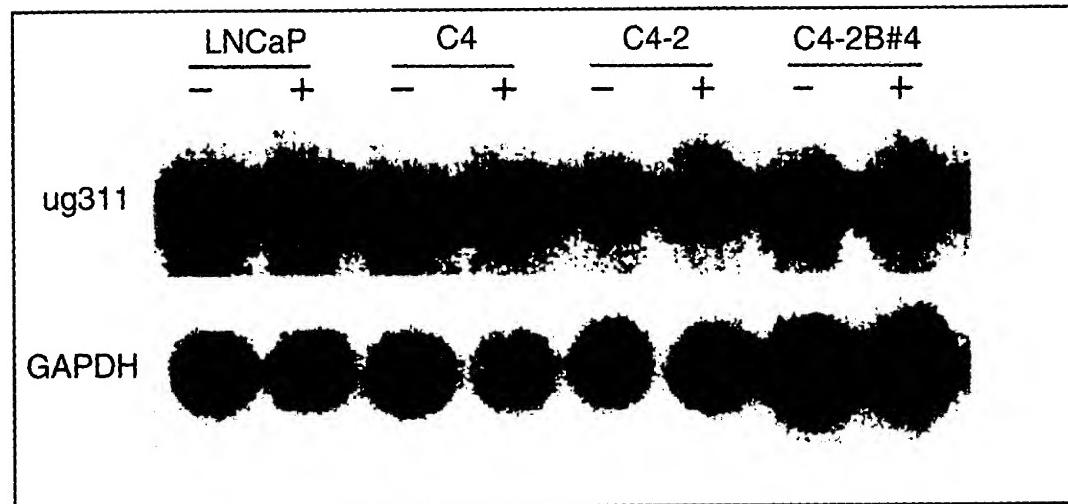


Fig. 4

265/472

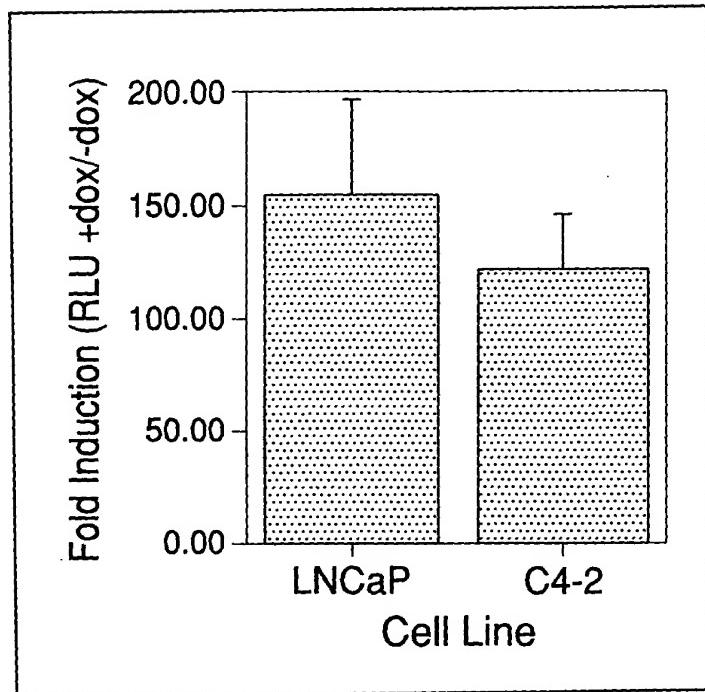


Fig. 5

266/472

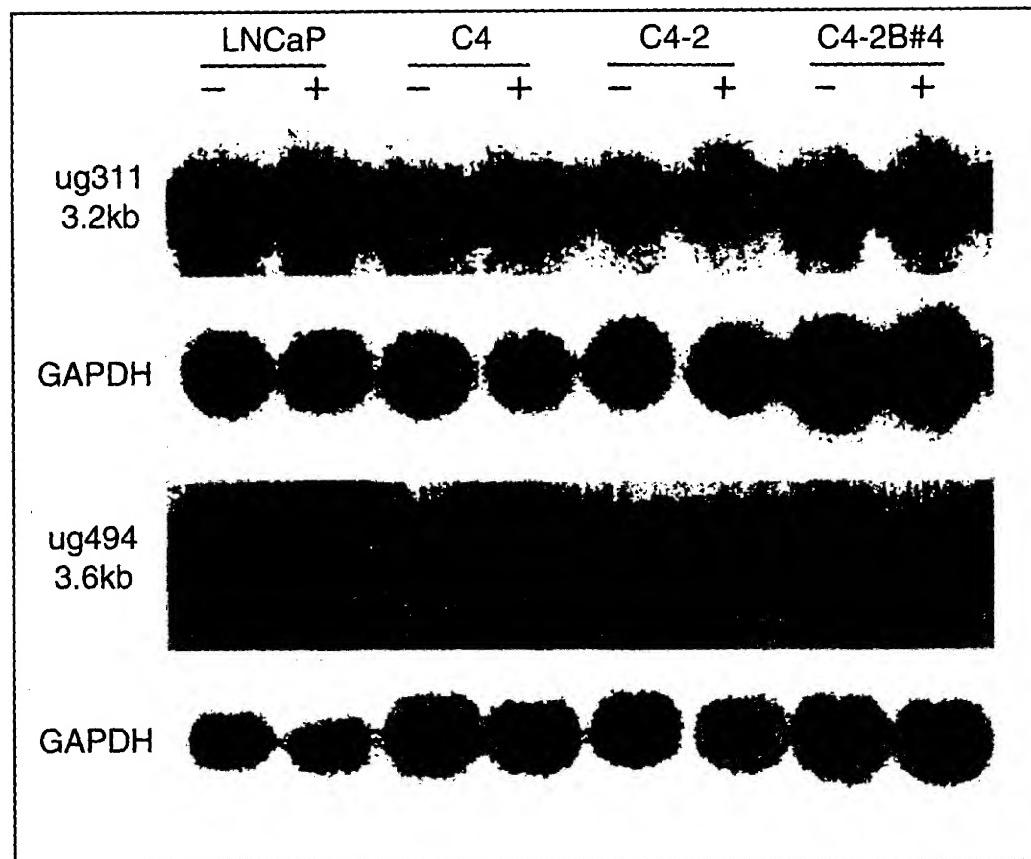


Fig. 6

267/472

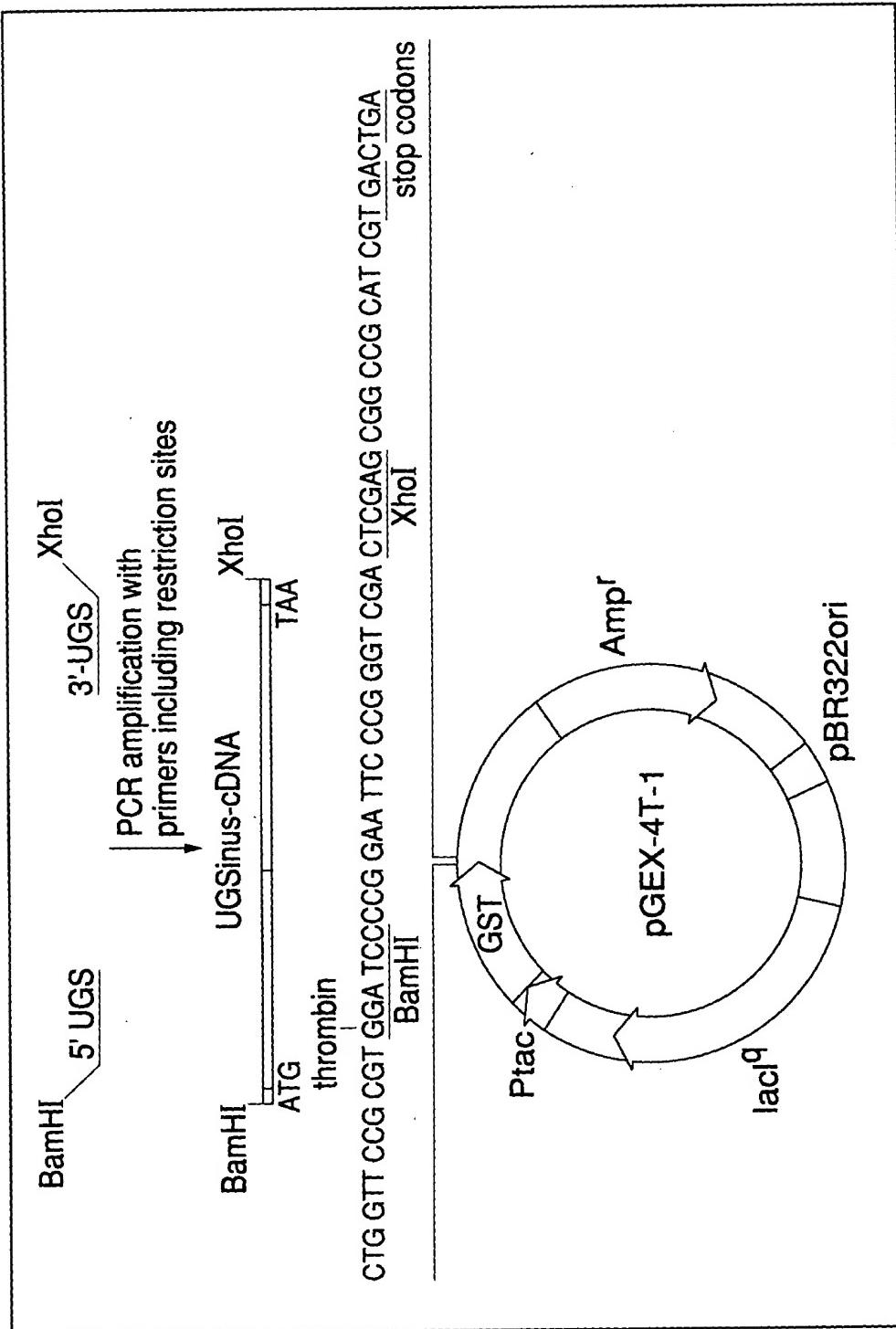


Fig. 7

268/472

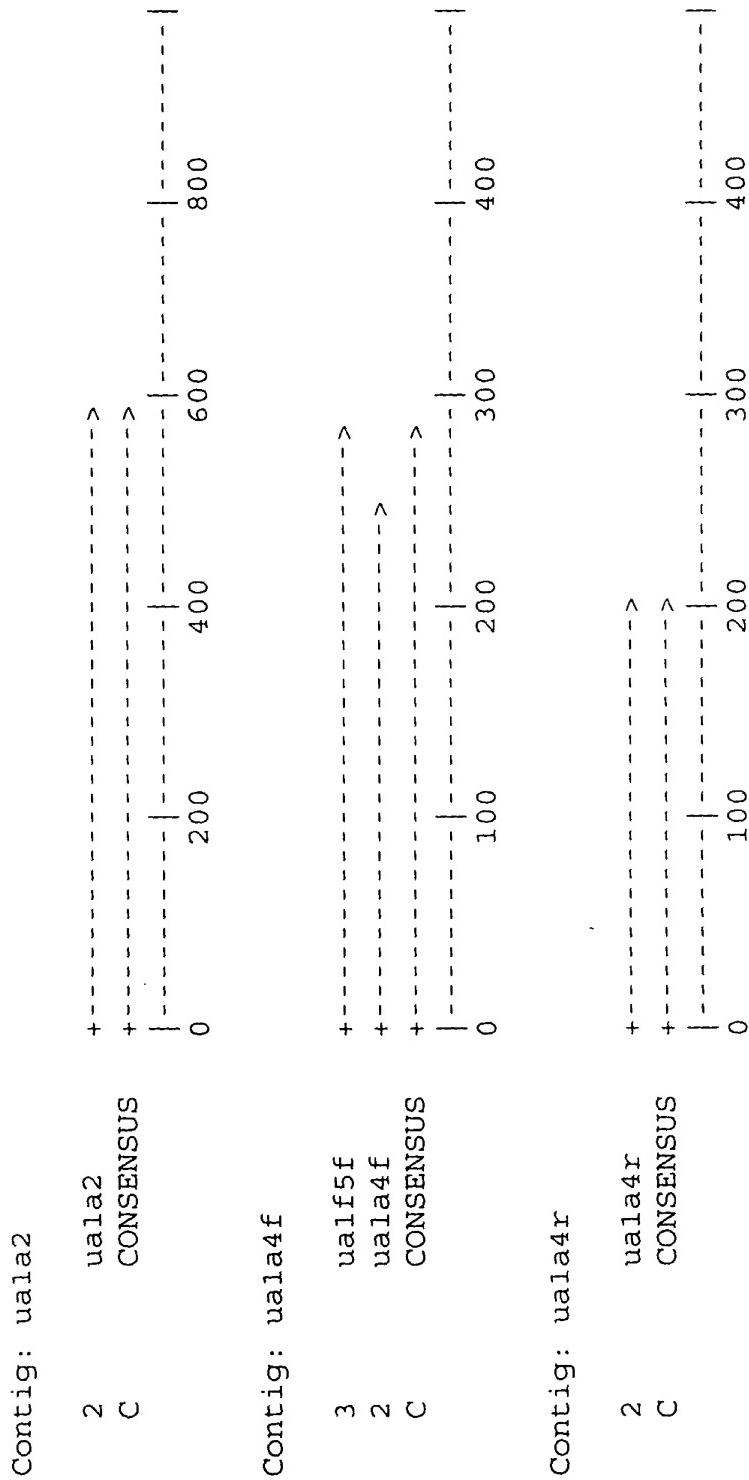


Fig. 8 - 1 of 180

269/472

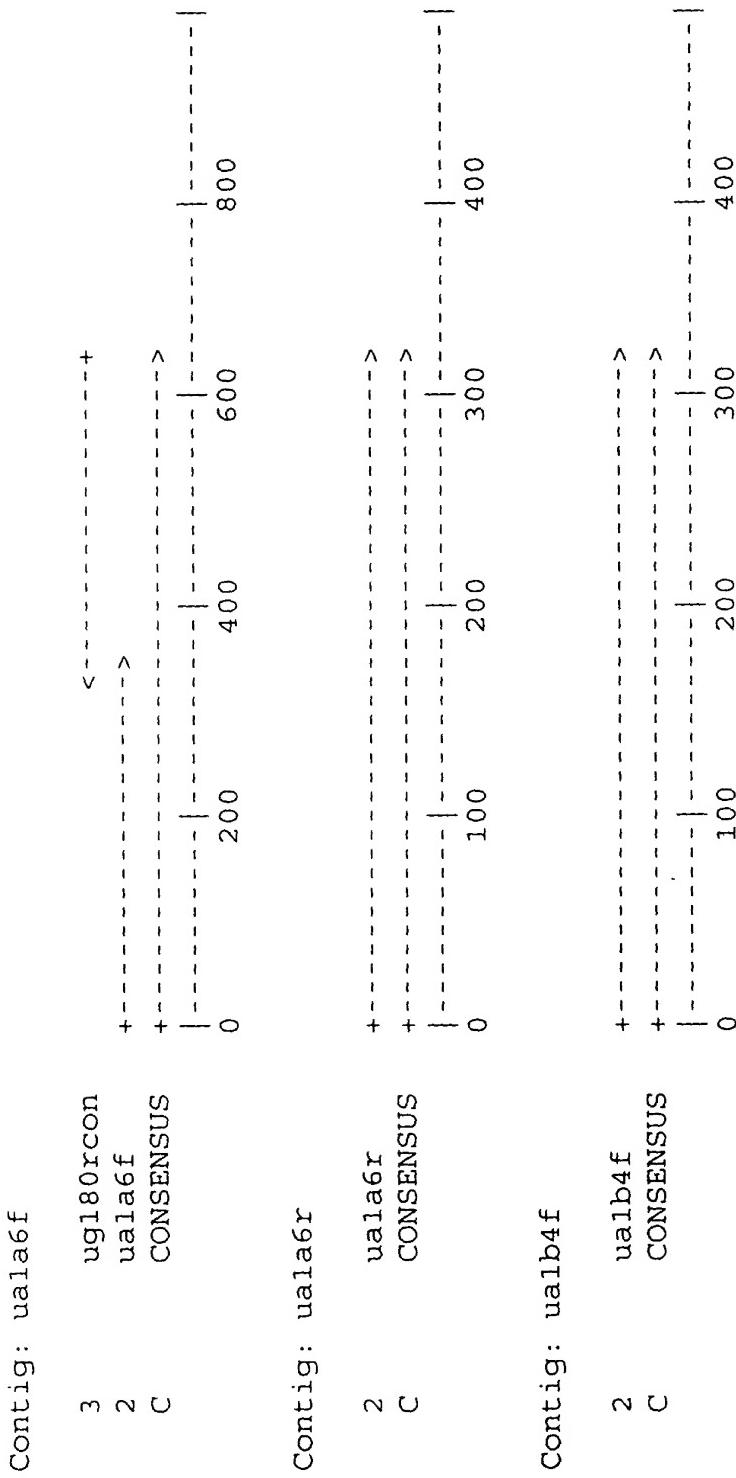


Fig. 8 - 2 of 180

270/472

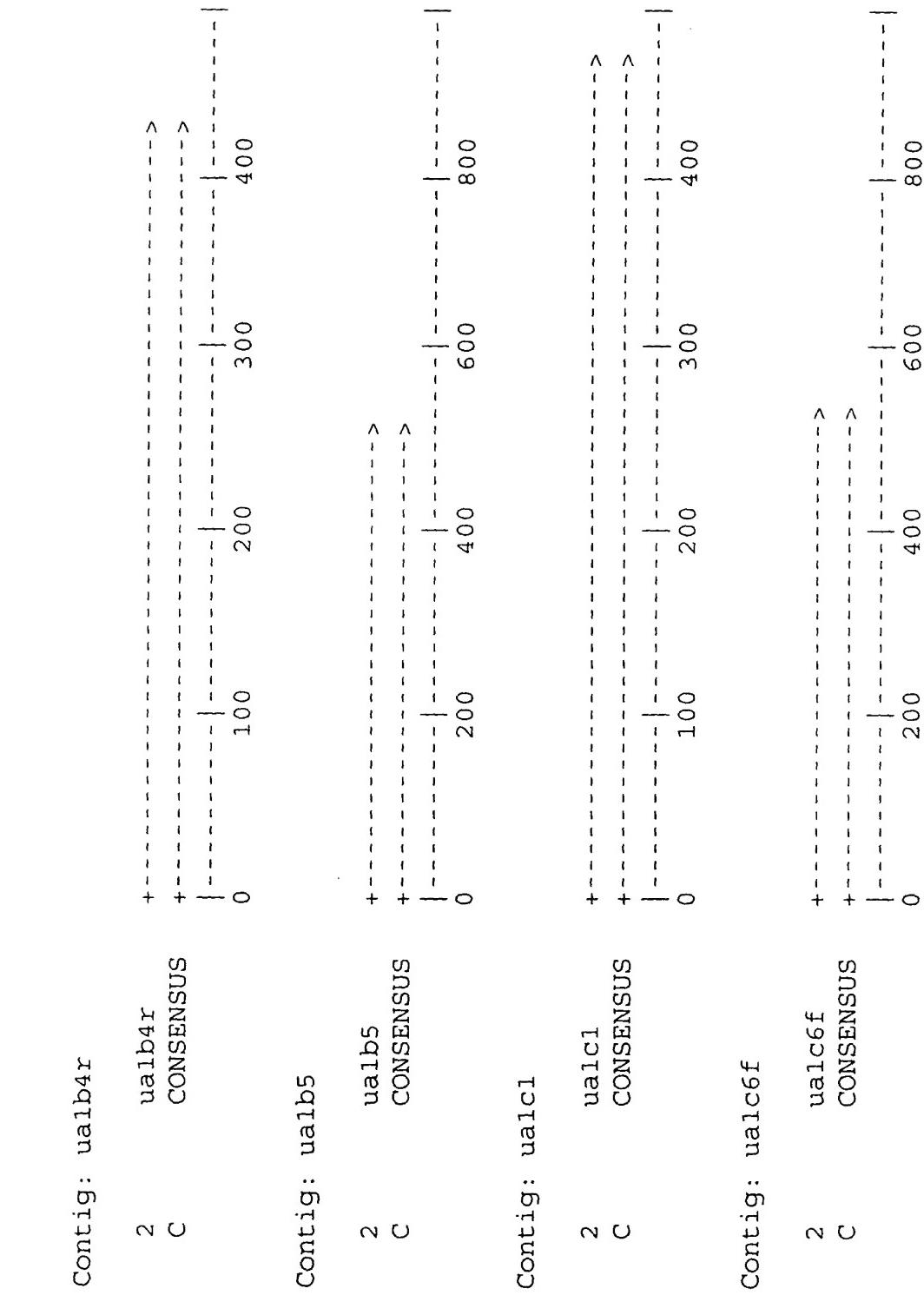


Fig. 8 - 3 of 180

271/472

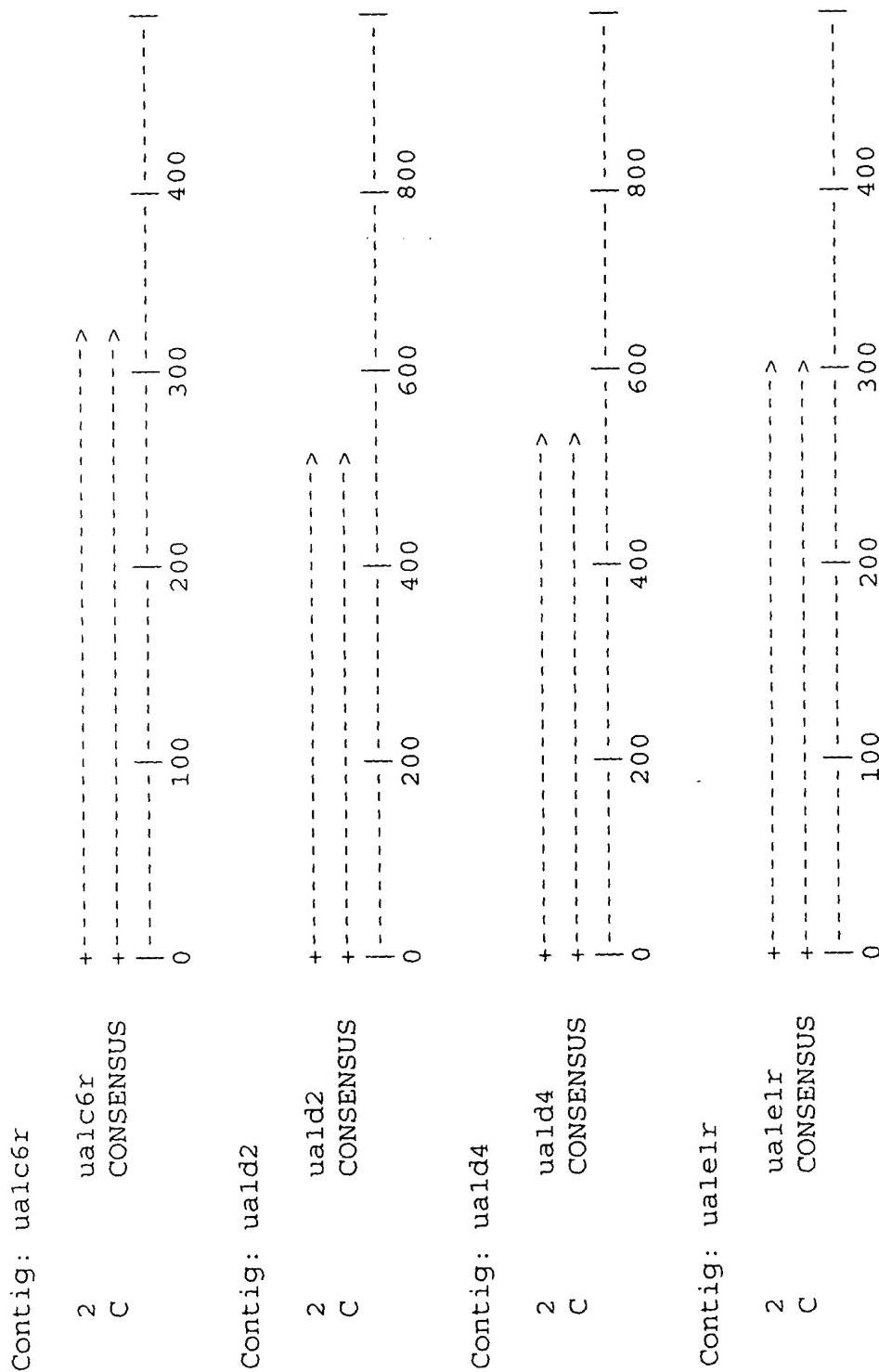


Fig. 8 - 4 of 180

272/472

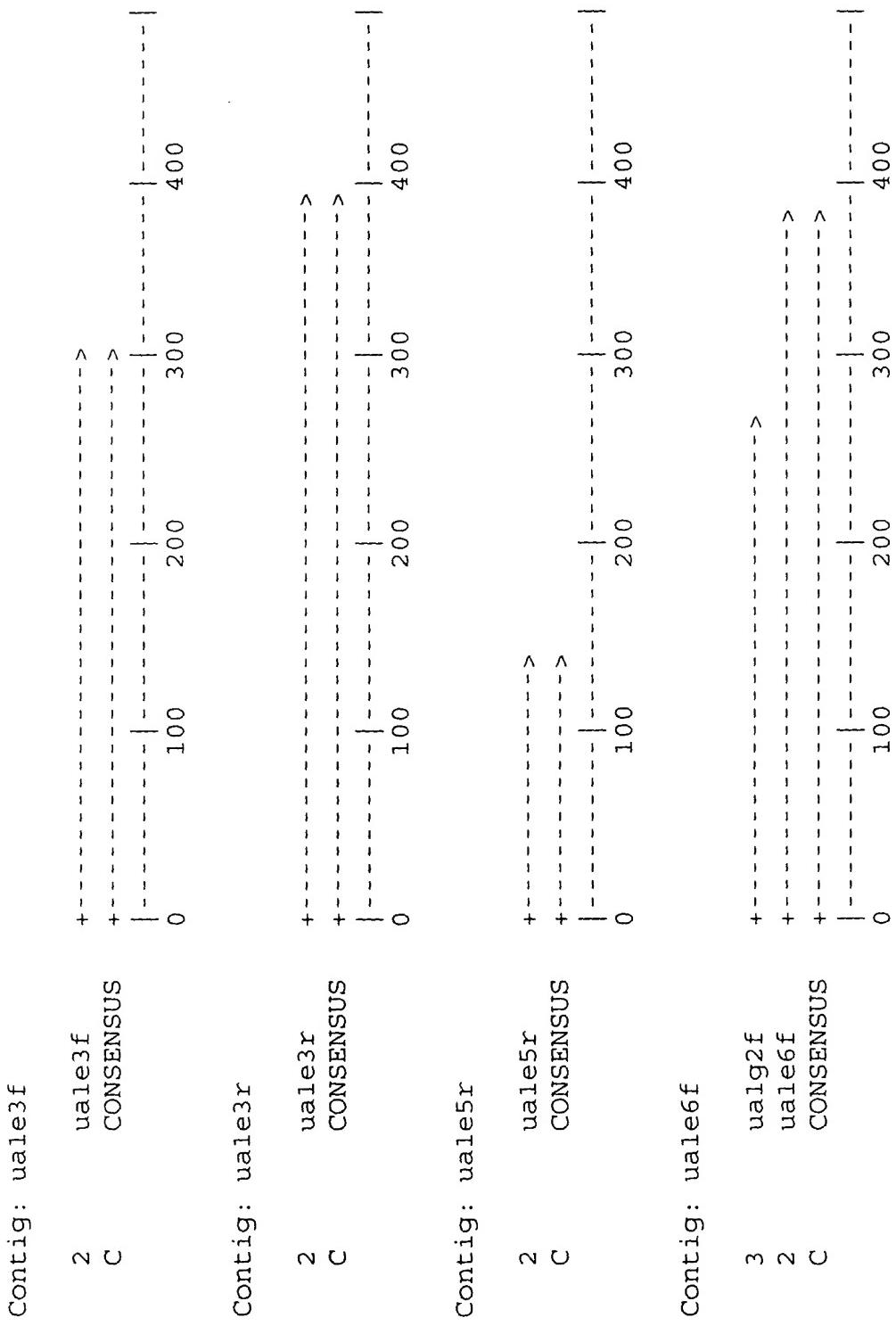


Fig. 8 - 5 of 180

273/472

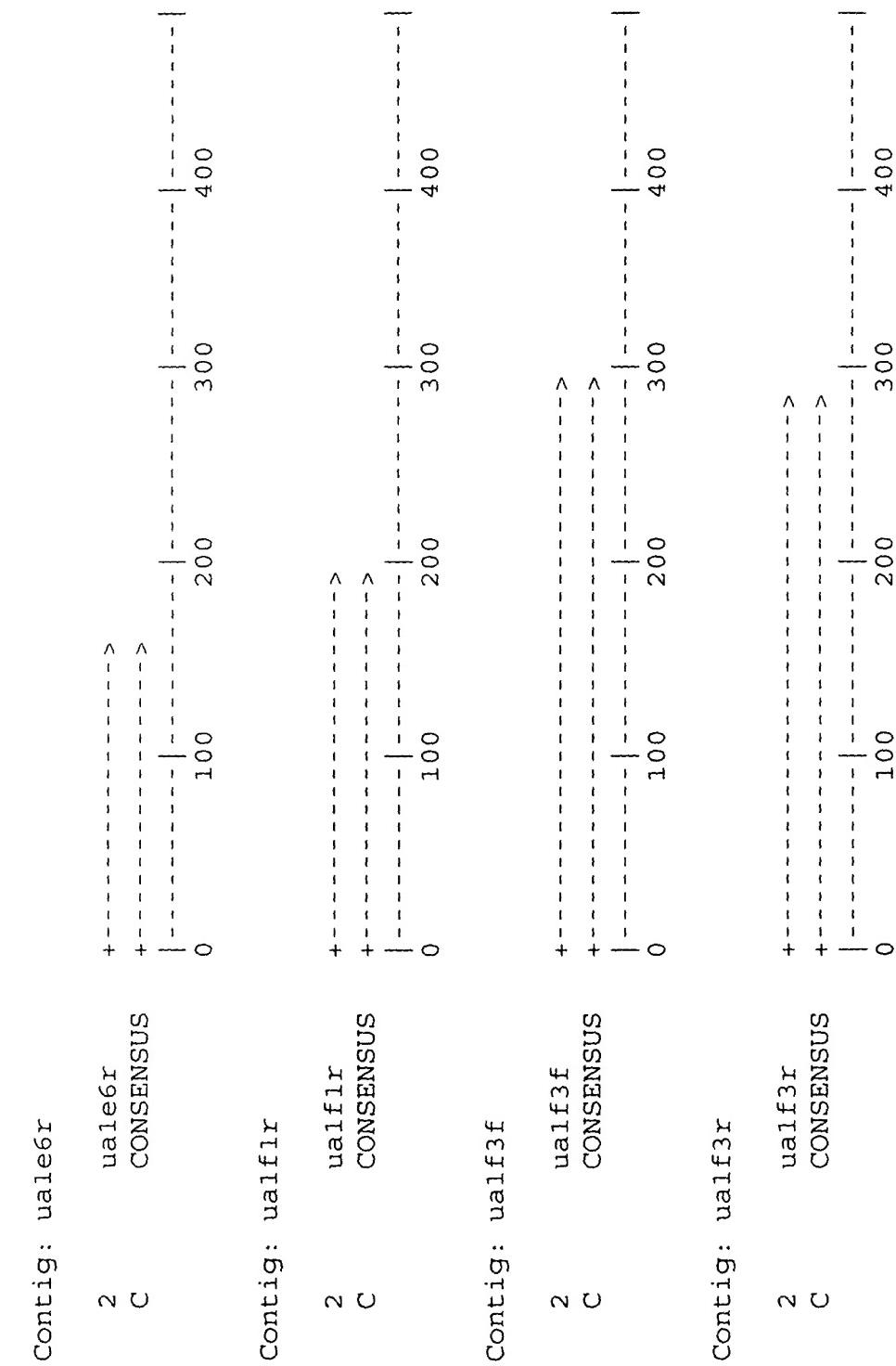


Fig. 8 - 6 of 180

274/472

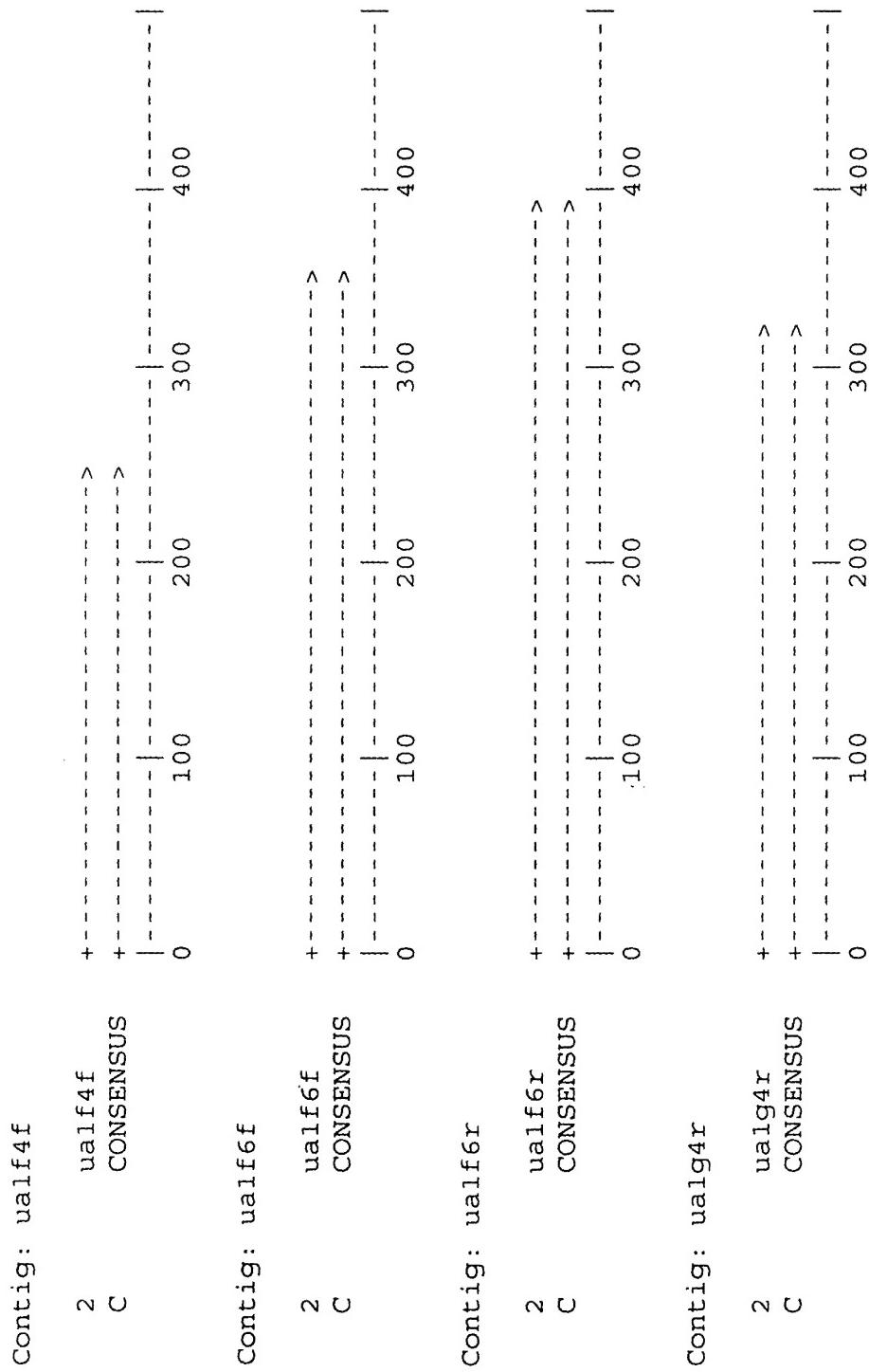


Fig. 8 - 7 of 180

275/472

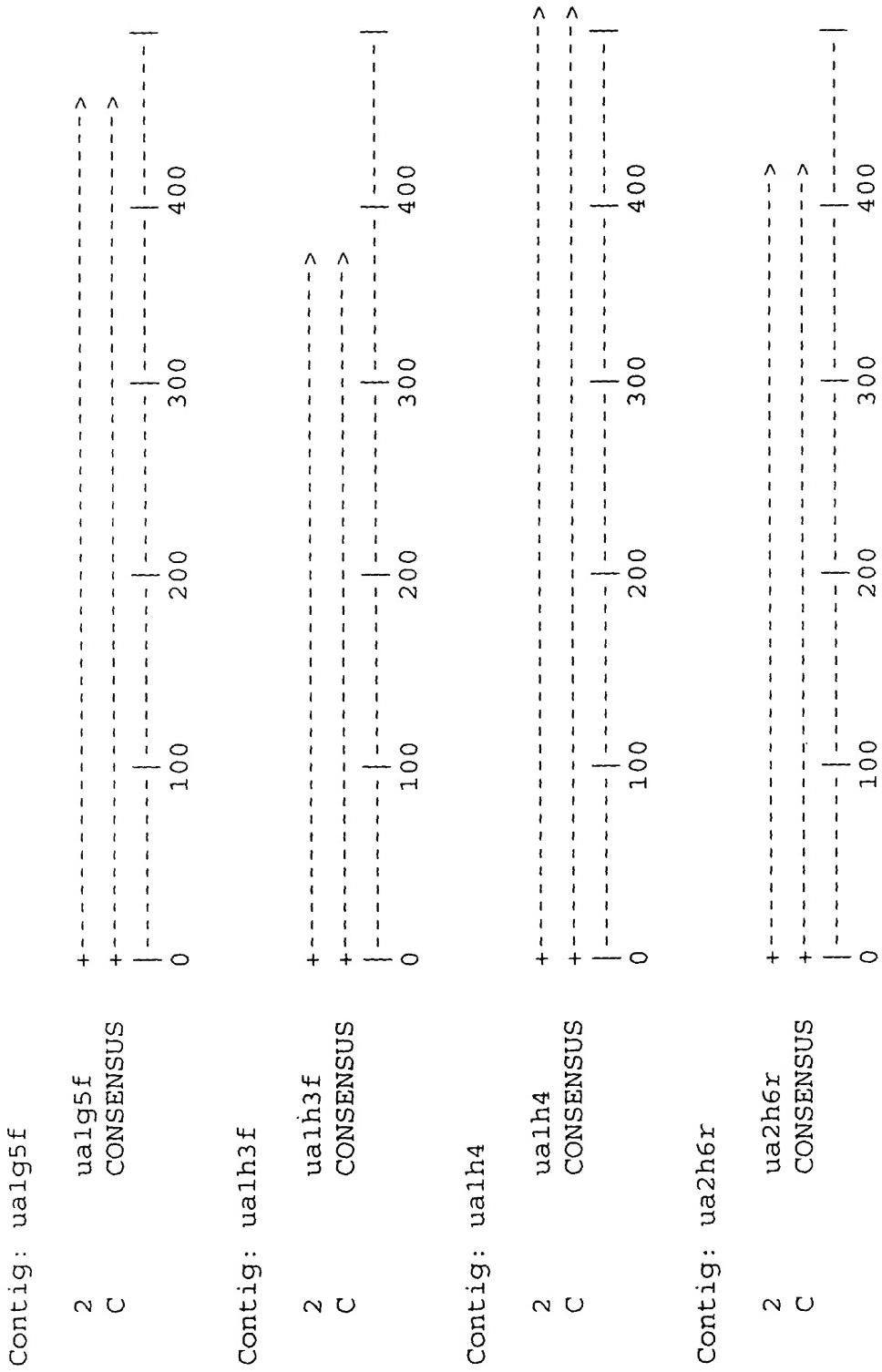


Fig. 8 - 8 of 180

276/472

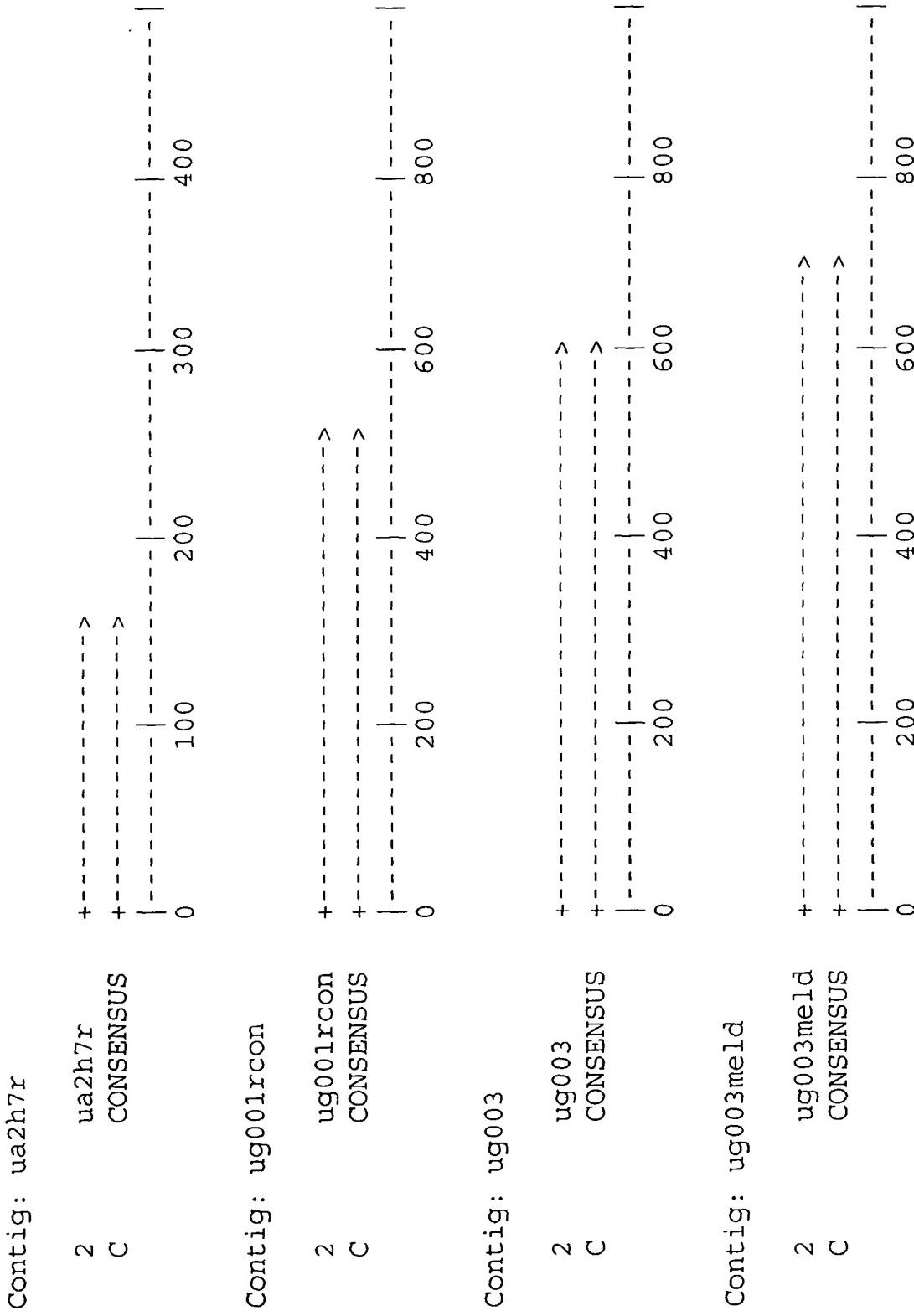
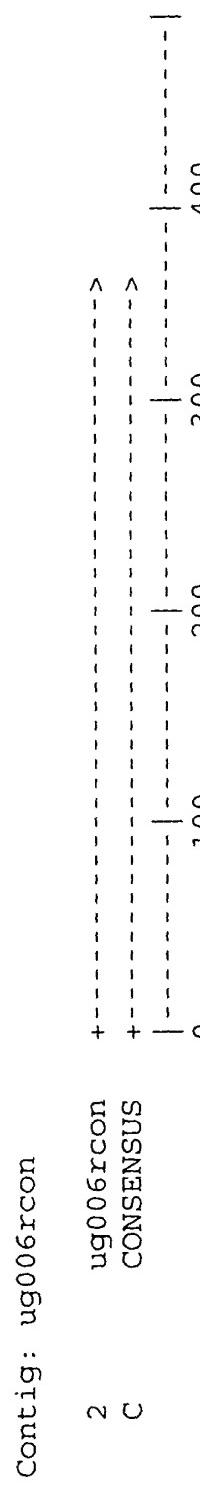
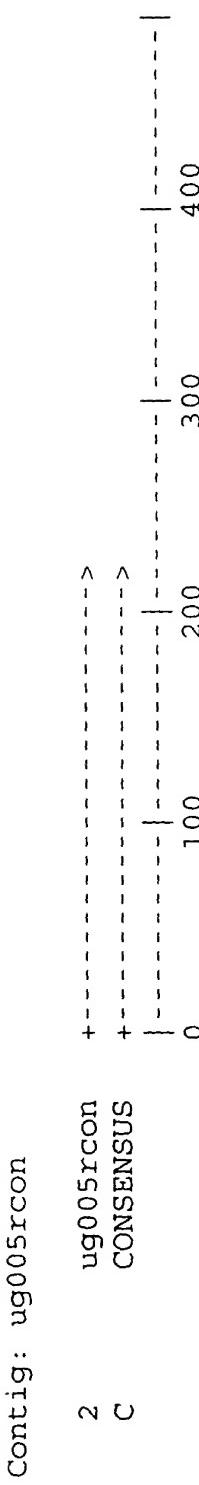
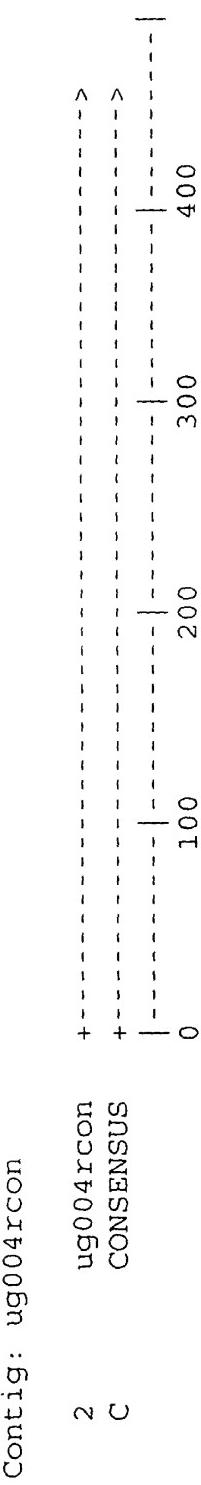


Fig. 8 - 9 of 180

277/472

ug004rcon ug004rcon ug004rcon ug004rcon ug004rcon ug004rcon



Contig: ug006unsure

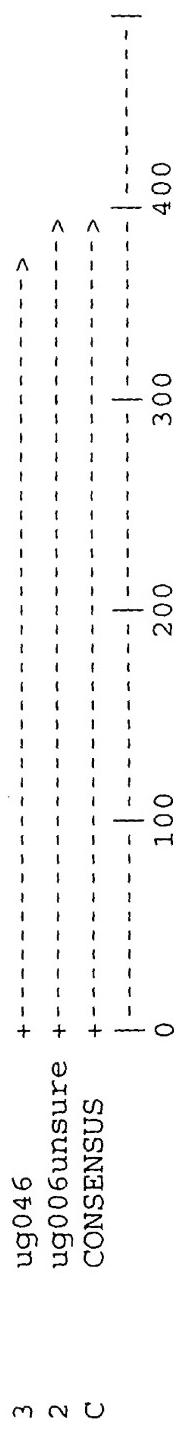


Fig. 8 - 10 of 180

278/472

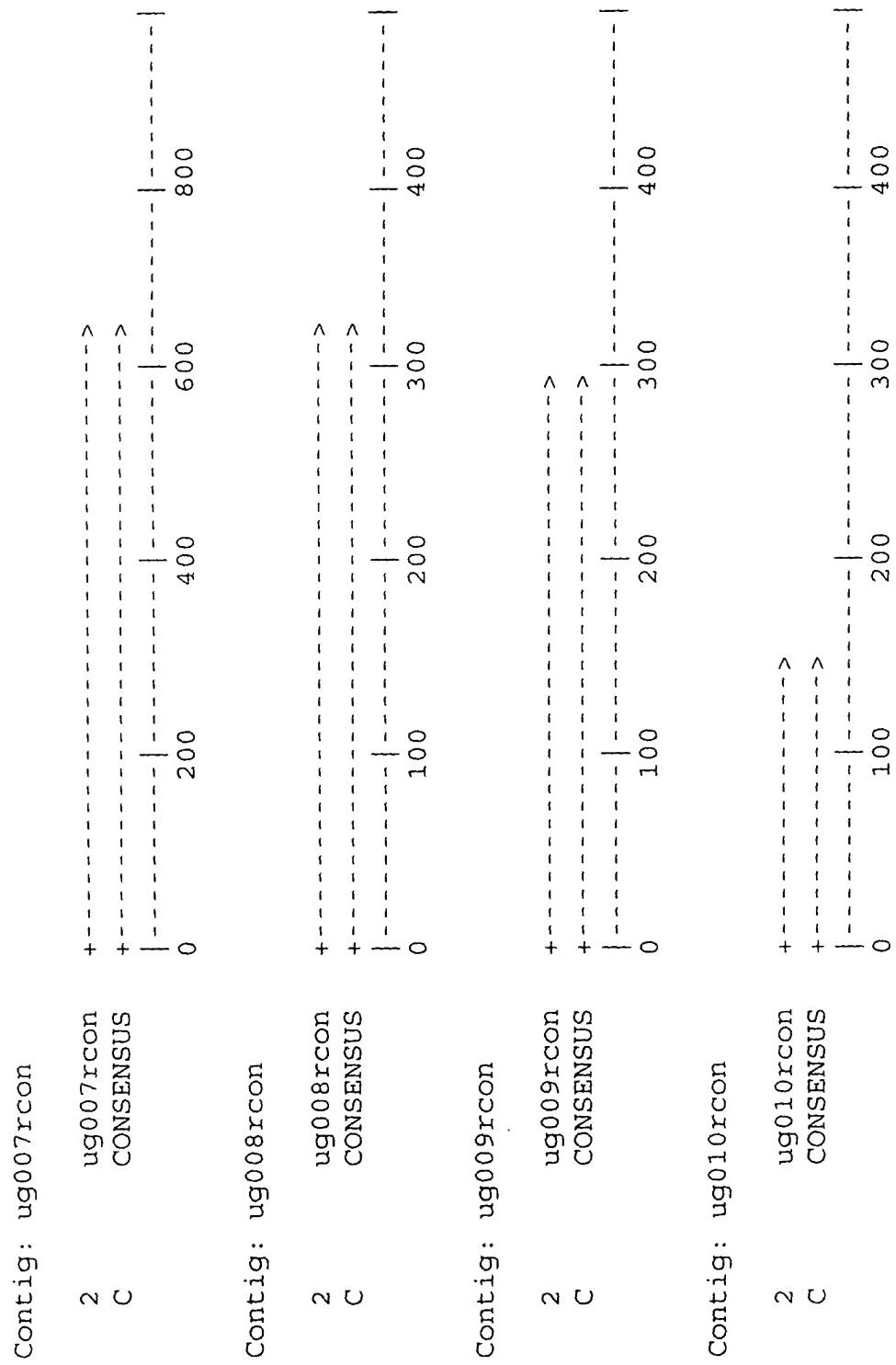
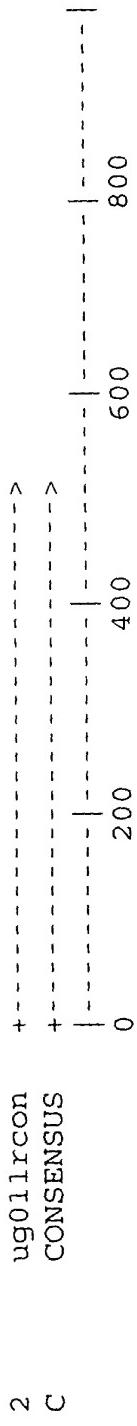


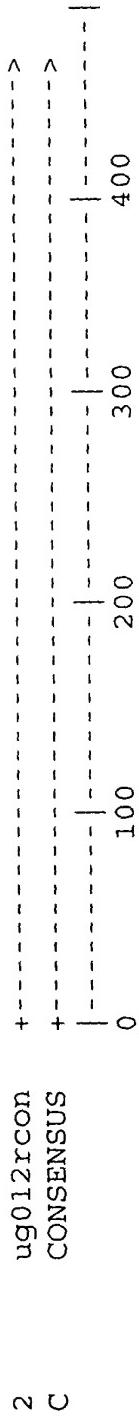
Fig. 8 - 11 of 180

279/472

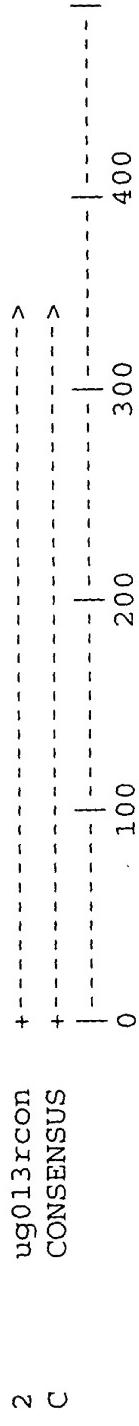
Contig: ug011rcon



Contig: ug012rcon



Contig: ug013rcon



Contig: ug014rcon

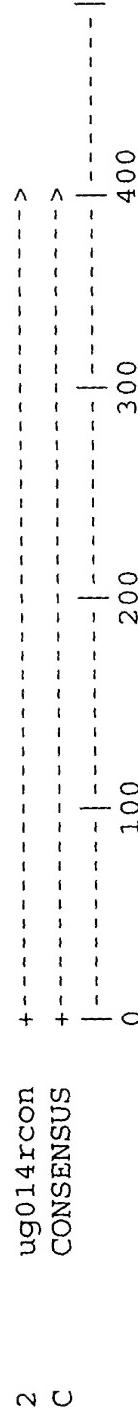


Fig. 8 - 12 of 180

280/472

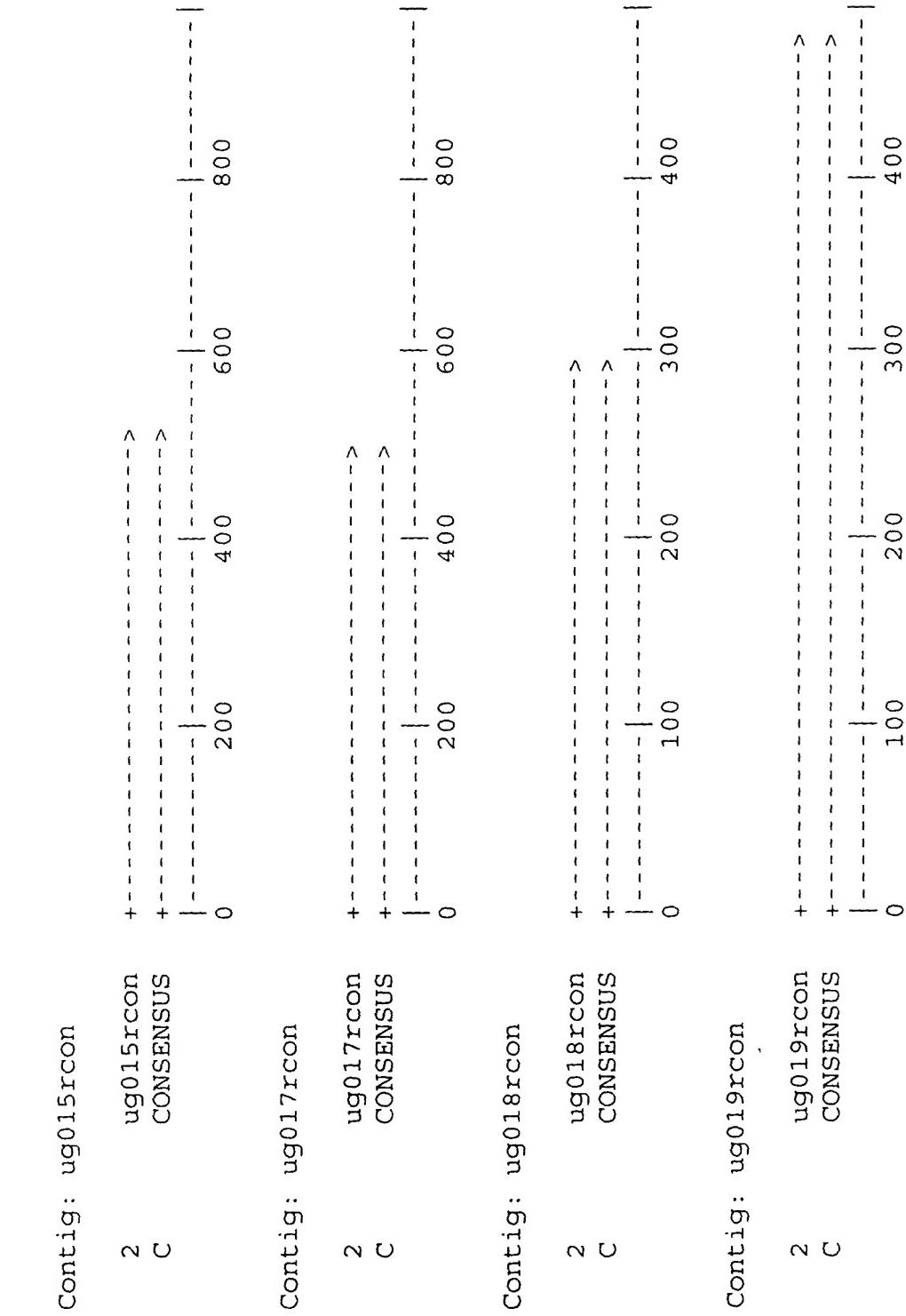


Fig. 8 - 13 of 180

281/472

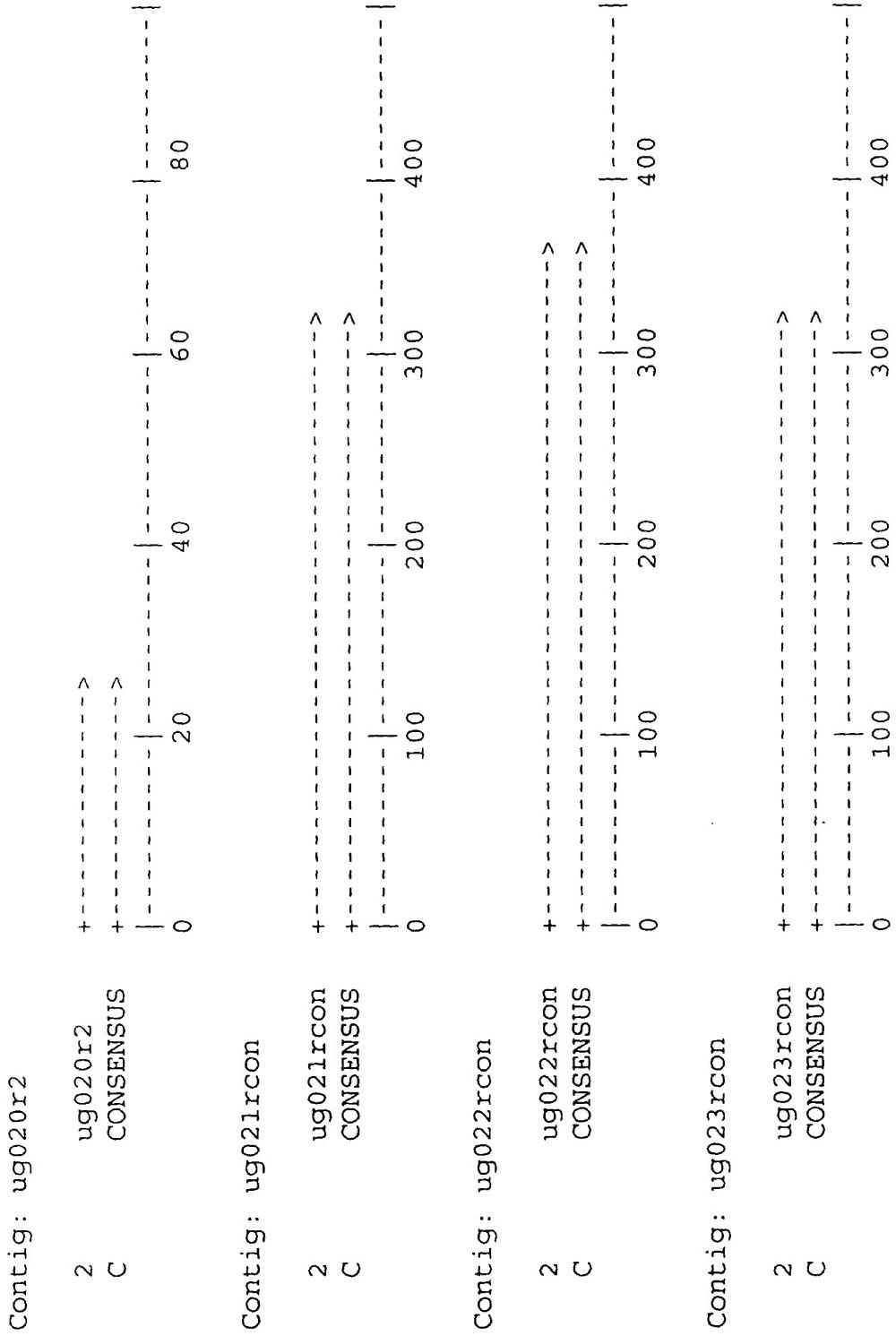


Fig. 8 - 14 of 180

282/472

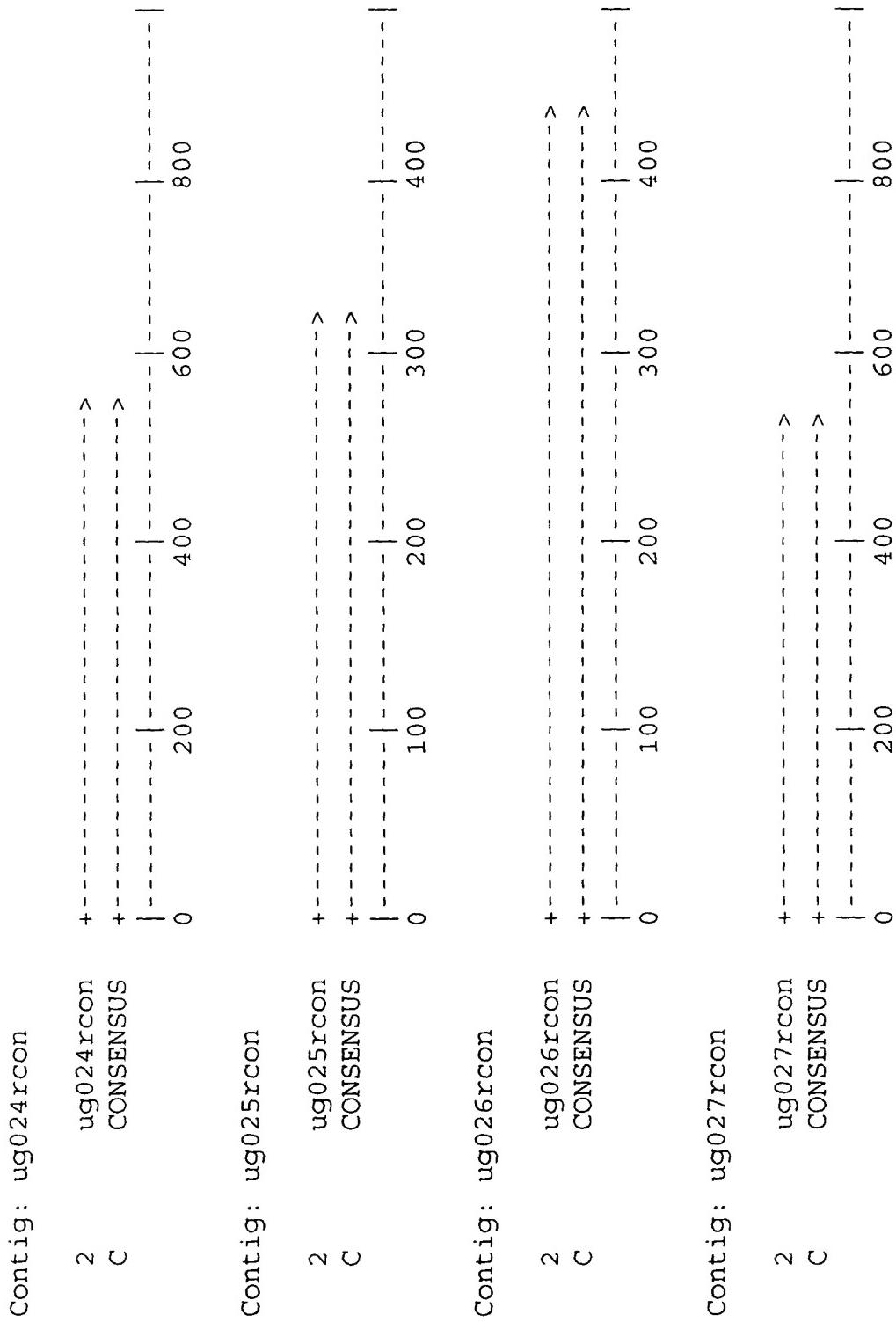


Fig. 8 - 15 of 180

283/472

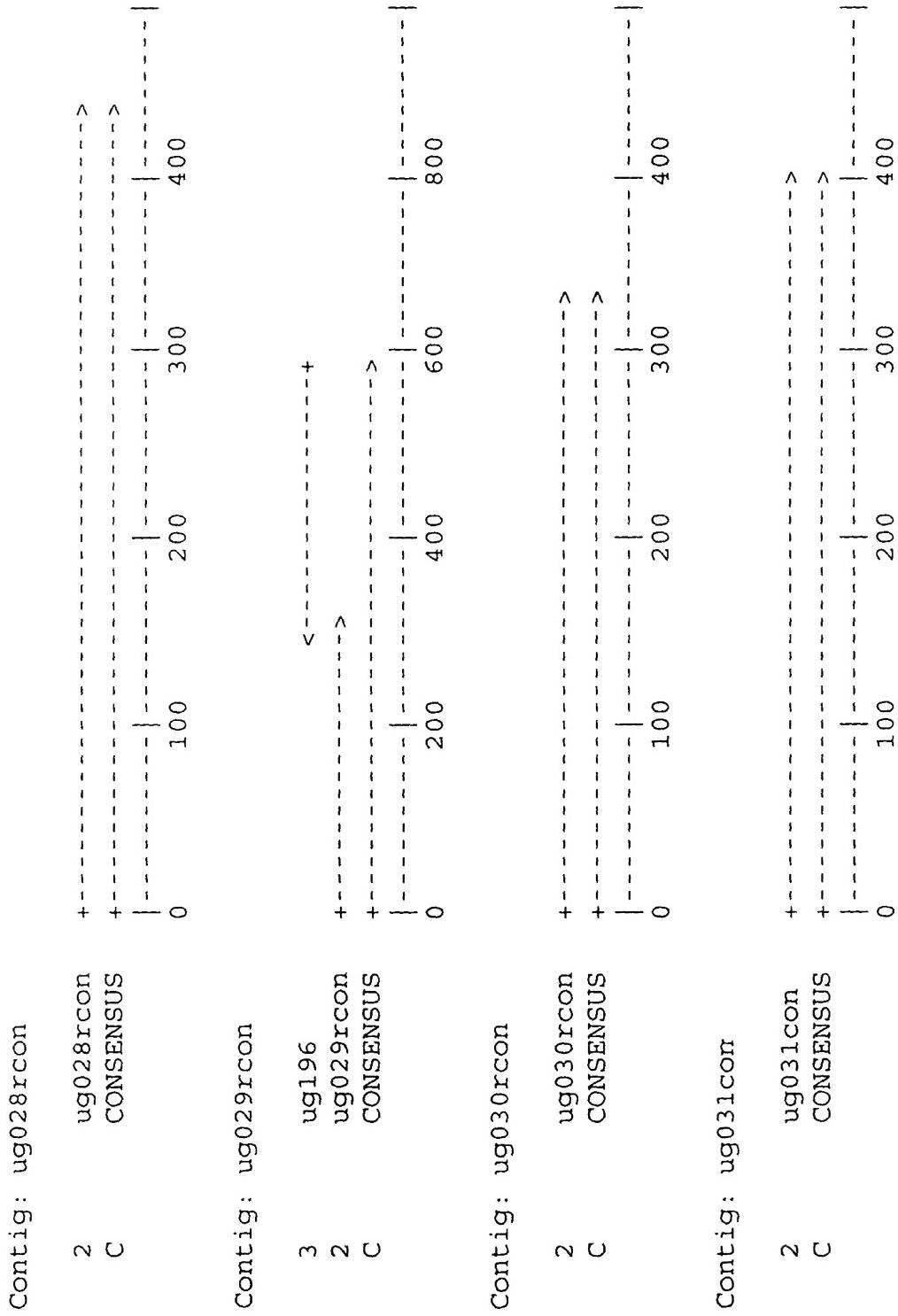


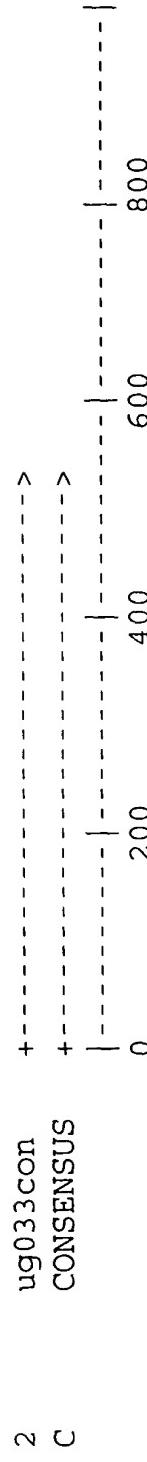
Fig. 8 - 16 of 180

284/472

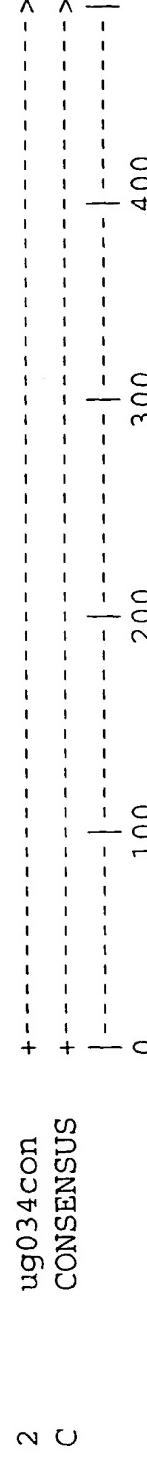
Contig: ug032rcon



Contig: ug033con



Contig: ug034con



Contig: ug035con

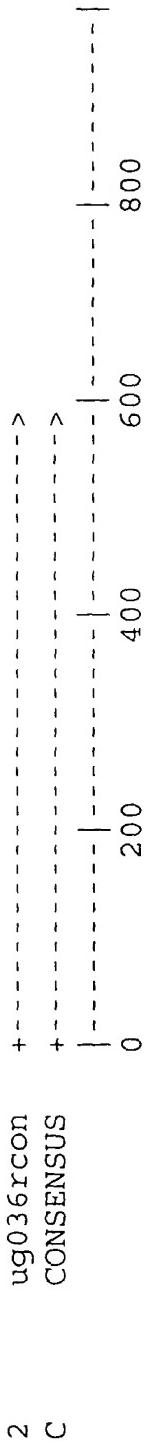


Fig. 8 - 17 of 180

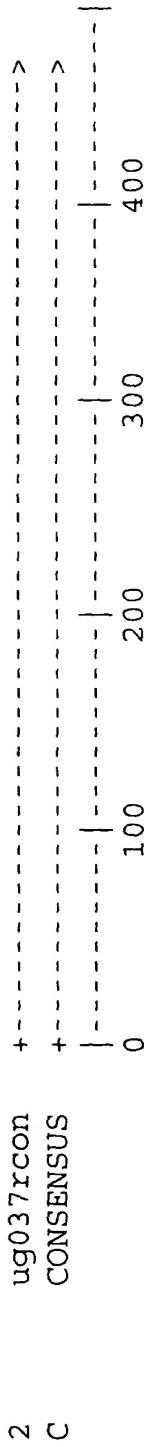
285/472

ug036rcon ug037rcon ug039rcon ug040rcon
CONSENSUS CONSENSUS CONSENSUS CONSENSUS

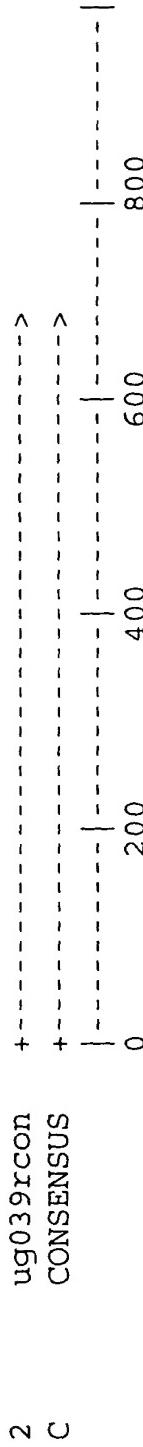
Contig: ug036rcon



Contig: ug037rcon



Contig: ug039rcon



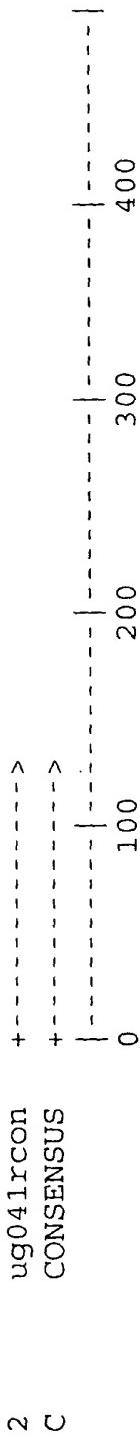
Contig: ug040rcon



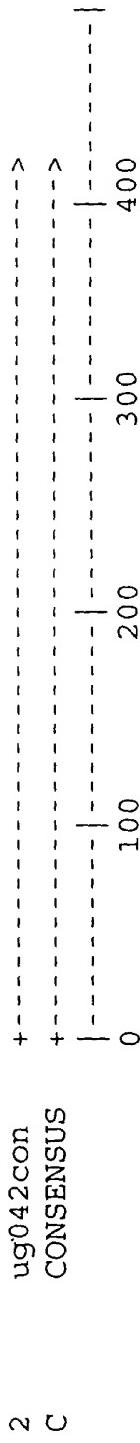
Fig. 8 - 18 of 180

286/472

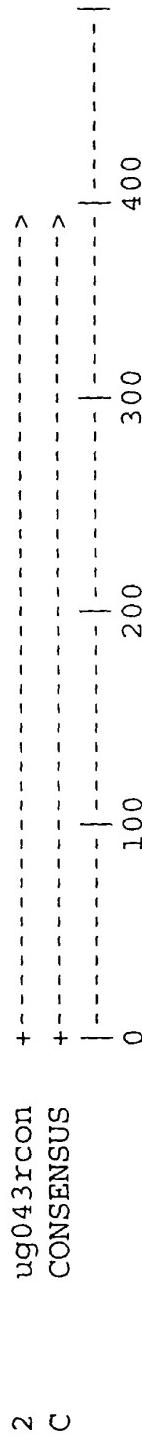
Contig: ug041rcon



Contig: ug042rcon



Contig: ug043rcon



Contig: ug044rcon

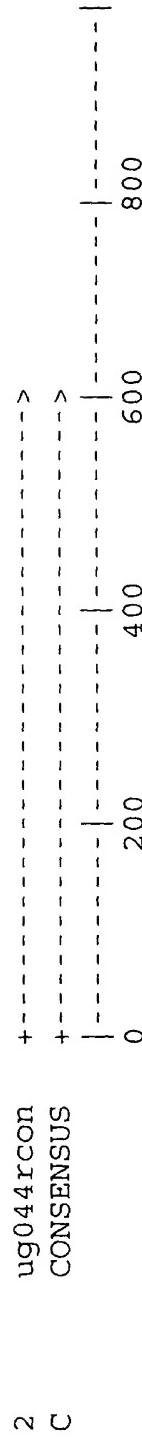
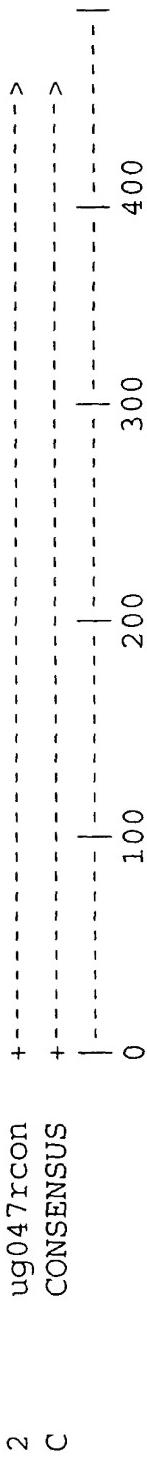


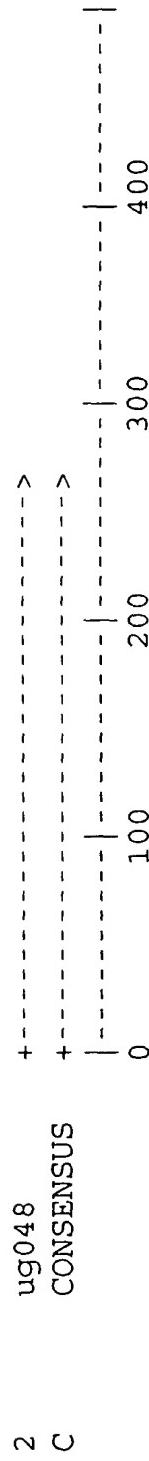
Fig. 8 - 19 of 180

287/472

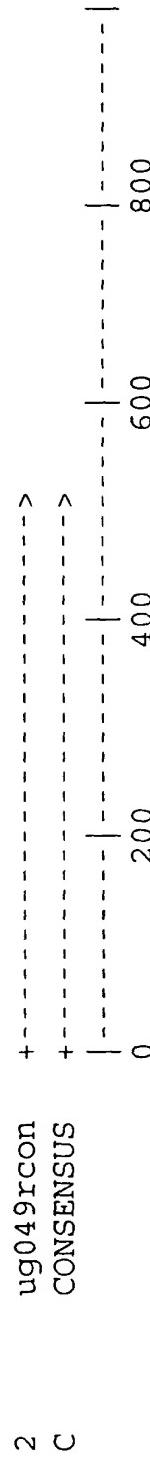
Contig: ug047rcon



Contig: ug048



Contig: ug049rcon



Contig: ug050rcon

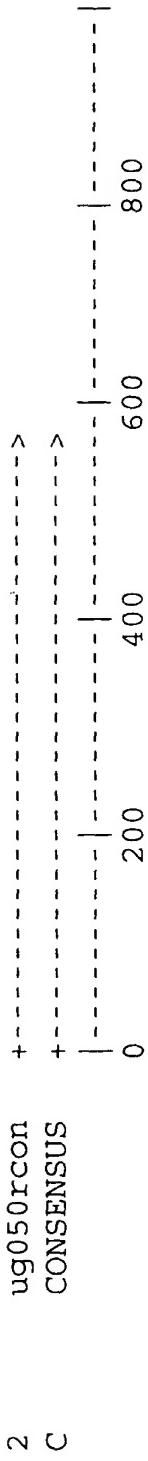
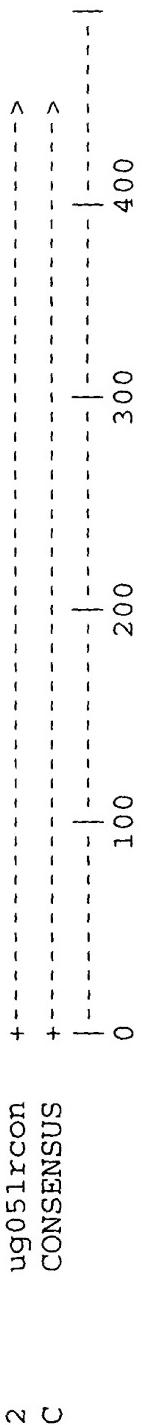


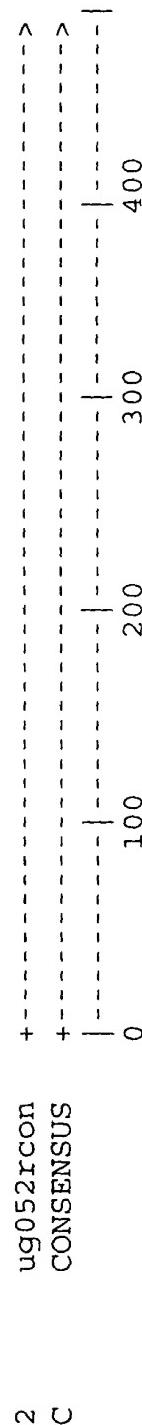
Fig. 8 - 20 of 180

288/472

ug051rcon
CONSENSUS



ug052rcon
CONSENSUS



ug053rcon
CONSENSUS



ug054
CONSENSUS

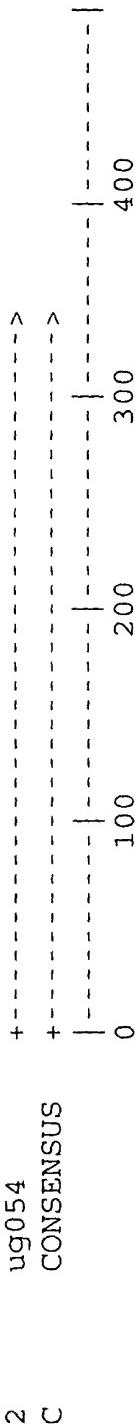
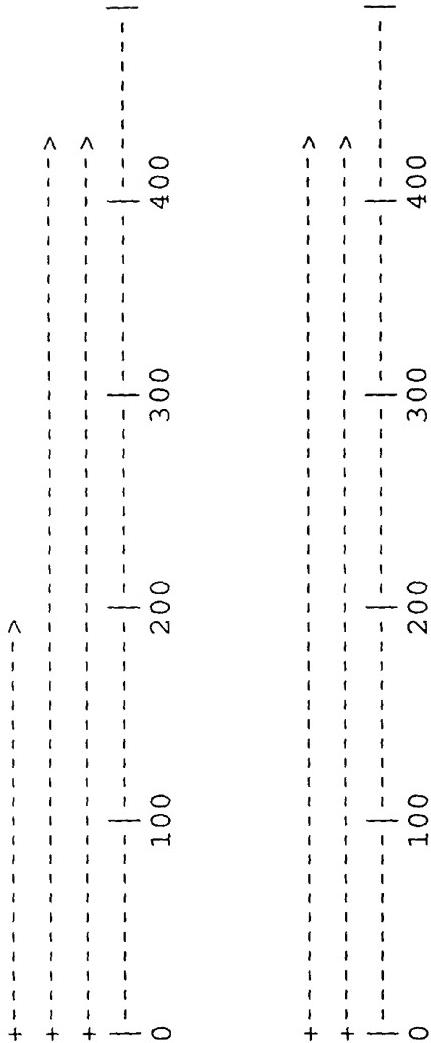


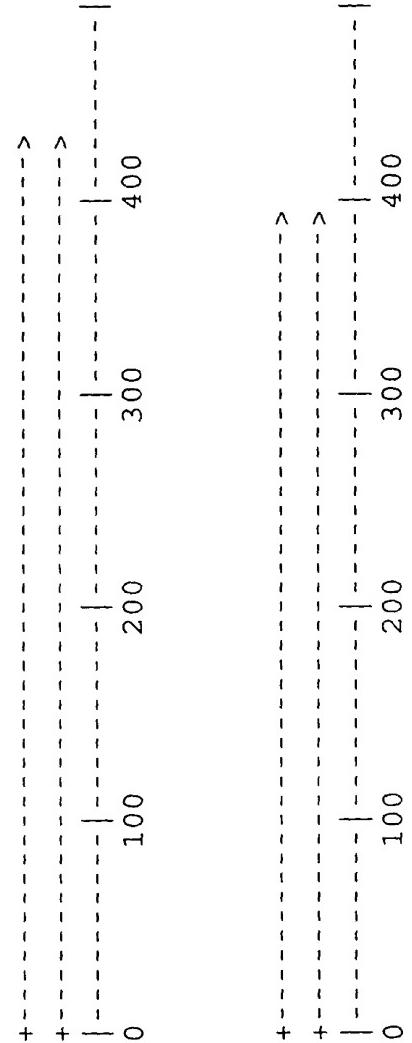
Fig. 8 - 21 of 180

289/472

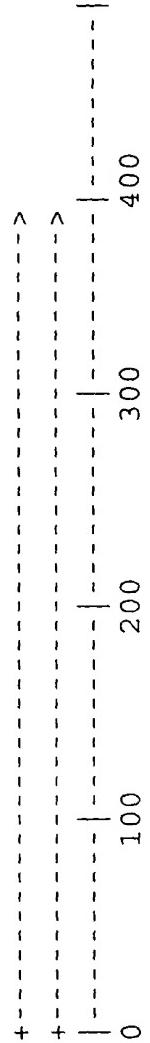
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Contig: ug058rcon



Contig: ug059



Contig: ug061rcon

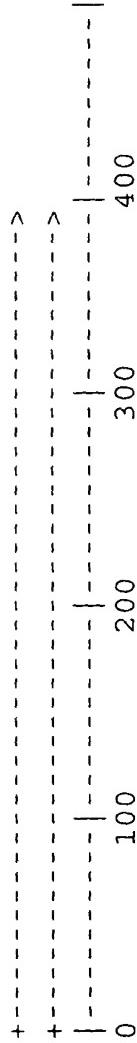
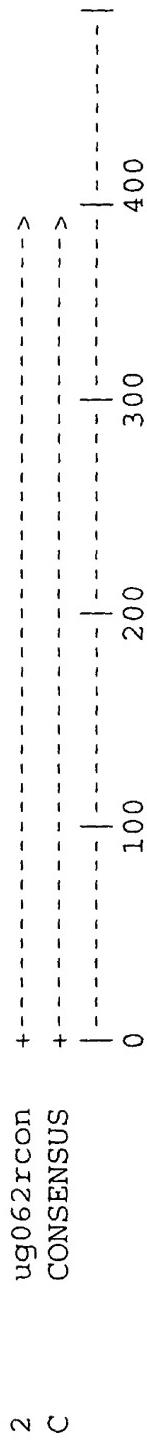


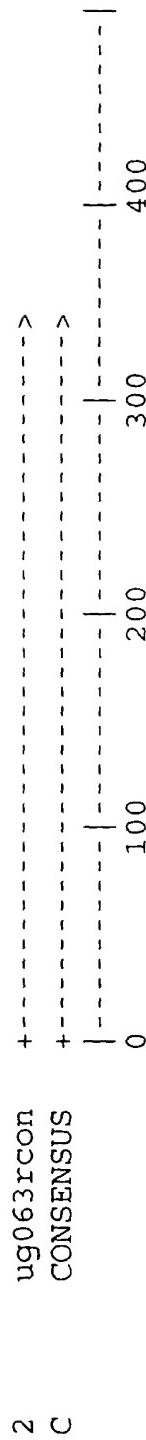
Fig. 8 - 22 of 180

290/472

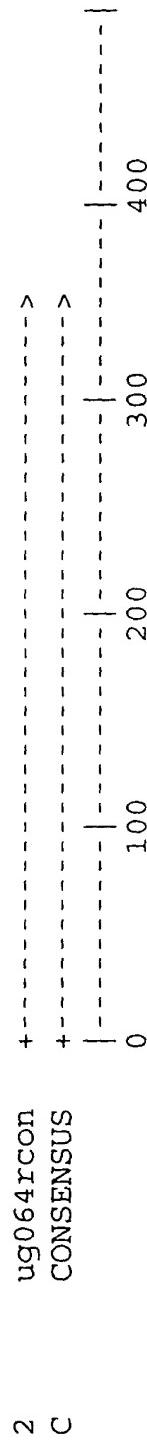
Contig: ug062rcon



Contig: ug063rcon



Contig: ug064rcon



Contig: ug065rcon

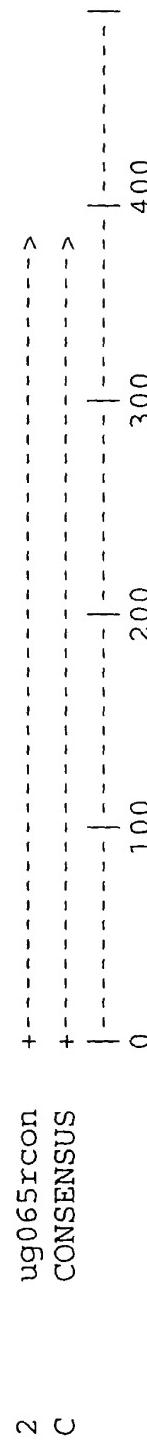
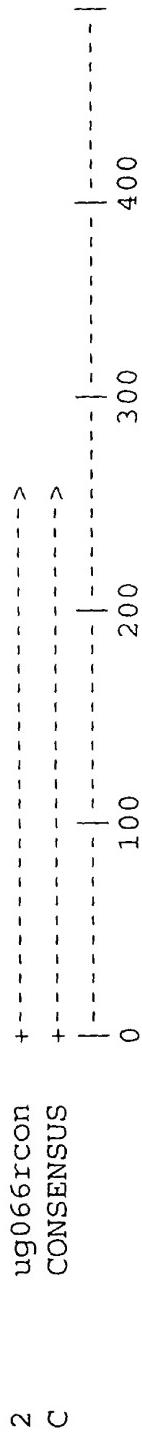


Fig. 8 - 23 of 180

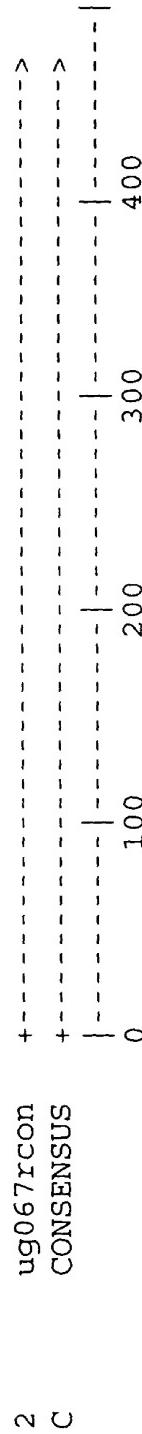
291/472

W₁ W₂ W₃ W₄ W₅ W₆ W₇ W₈ W₉ W₁₀ W₁₁ W₁₂ W₁₃ W₁₄ W₁₅ W₁₆ W₁₇ W₁₈ W₁₉ W₂₀ W₂₁ W₂₂ W₂₃ W₂₄ W₂₅ W₂₆ W₂₇ W₂₈ W₂₉ W₃₀ W₃₁ W₃₂ W₃₃ W₃₄ W₃₅ W₃₆ W₃₇ W₃₈ W₃₉ W₄₀ W₄₁ W₄₂ W₄₃ W₄₄ W₄₅ W₄₆ W₄₇ W₄₈ W₄₉ W₅₀ W₅₁ W₅₂ W₅₃ W₅₄ W₅₅ W₅₆ W₅₇ W₅₈ W₅₉ W₆₀ W₆₁ W₆₂ W₆₃ W₆₄ W₆₅ W₆₆ W₆₇ W₆₈ W₆₉ W₇₀ W₇₁ W₇₂ W₇₃ W₇₄ W₇₅ W₇₆ W₇₇ W₇₈ W₇₉ W₈₀ W₈₁ W₈₂ W₈₃ W₈₄ W₈₅ W₈₆ W₈₇ W₈₈ W₈₉ W₉₀ W₉₁ W₉₂ W₉₃ W₉₄ W₉₅ W₉₆ W₉₇ W₉₈ W₉₉ W₁₀₀

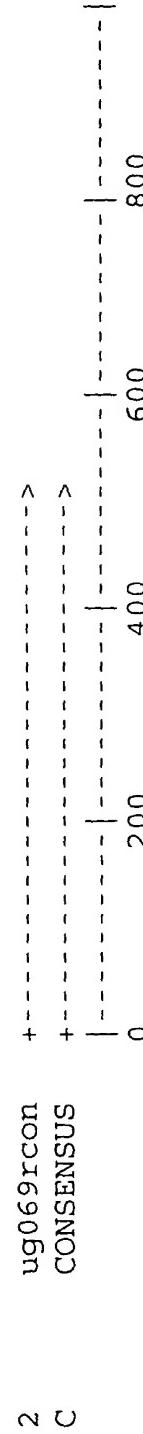
Contig: ug066rcon



Contig: ug067rcon



Contig: ug069rcon



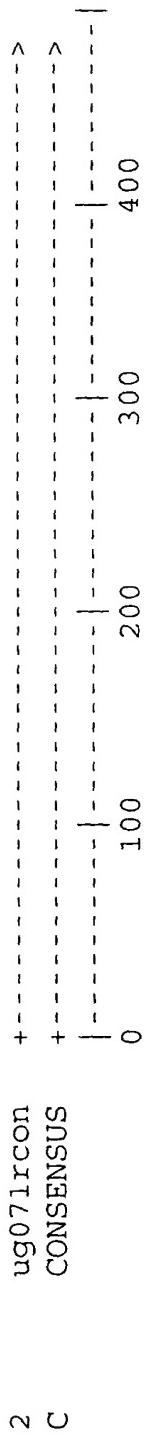
Contig: ug070rcon



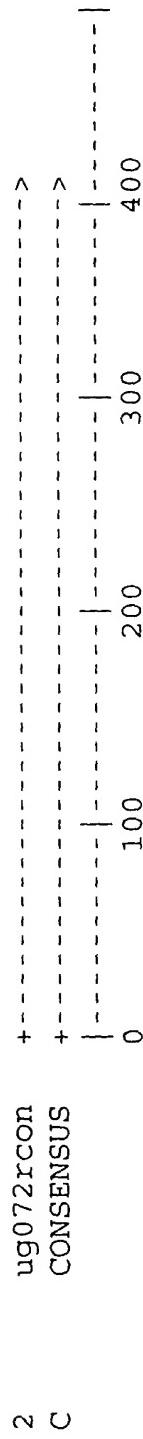
Fig. 8 - 24 of 180

292/472

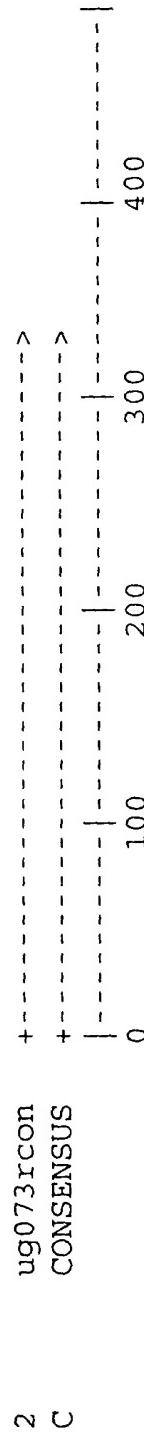
Contig: ug071rcon



Contig: ug072rcon



Contig: ug073rcon



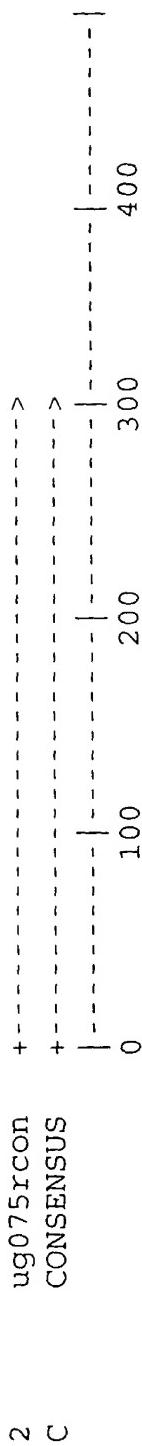
Contig: ug074rcon



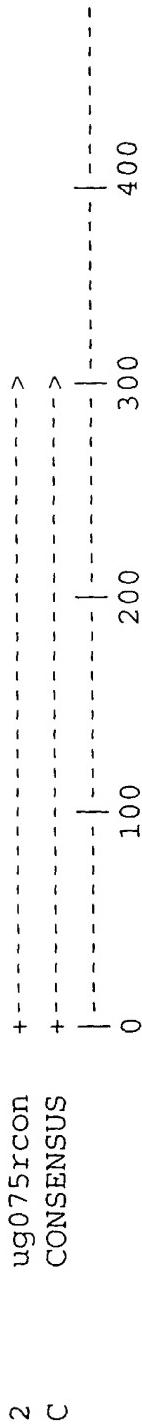
Fig. 8 - 25 of 180

293/472

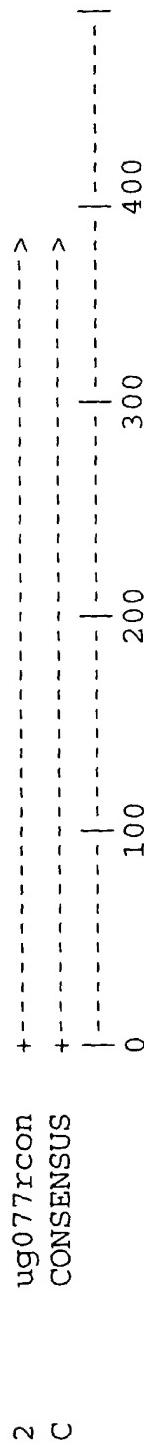
ug075rcon CONSENSUS



Contig: ug076rcon



Contig: ug077rcon



Contig: ug078rcon

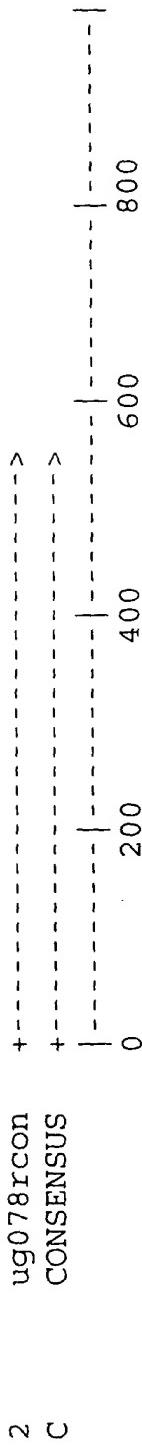
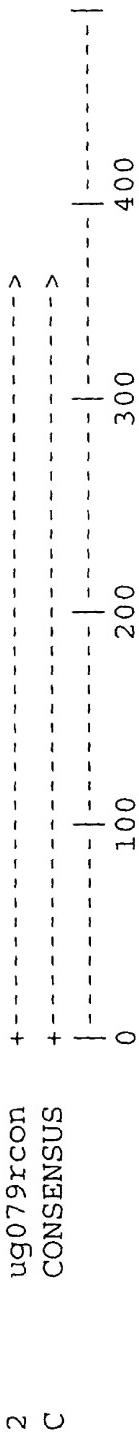


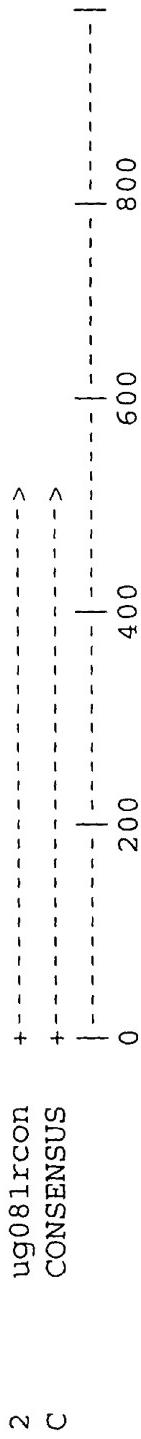
Fig. 8 - 26 of 180

294/472

Contig: ug079rcon



Contig: ug081rcon



Contig: ug084rcon



Contig: ug085rcon

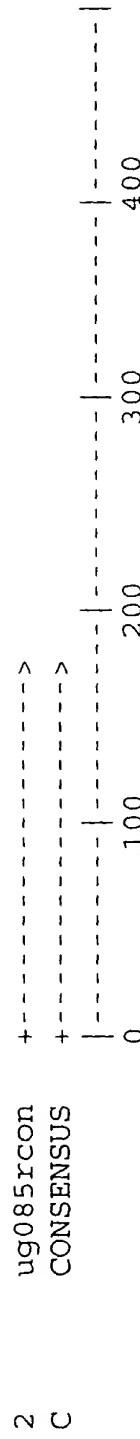


Fig. 8 - 27 of 180

295/472

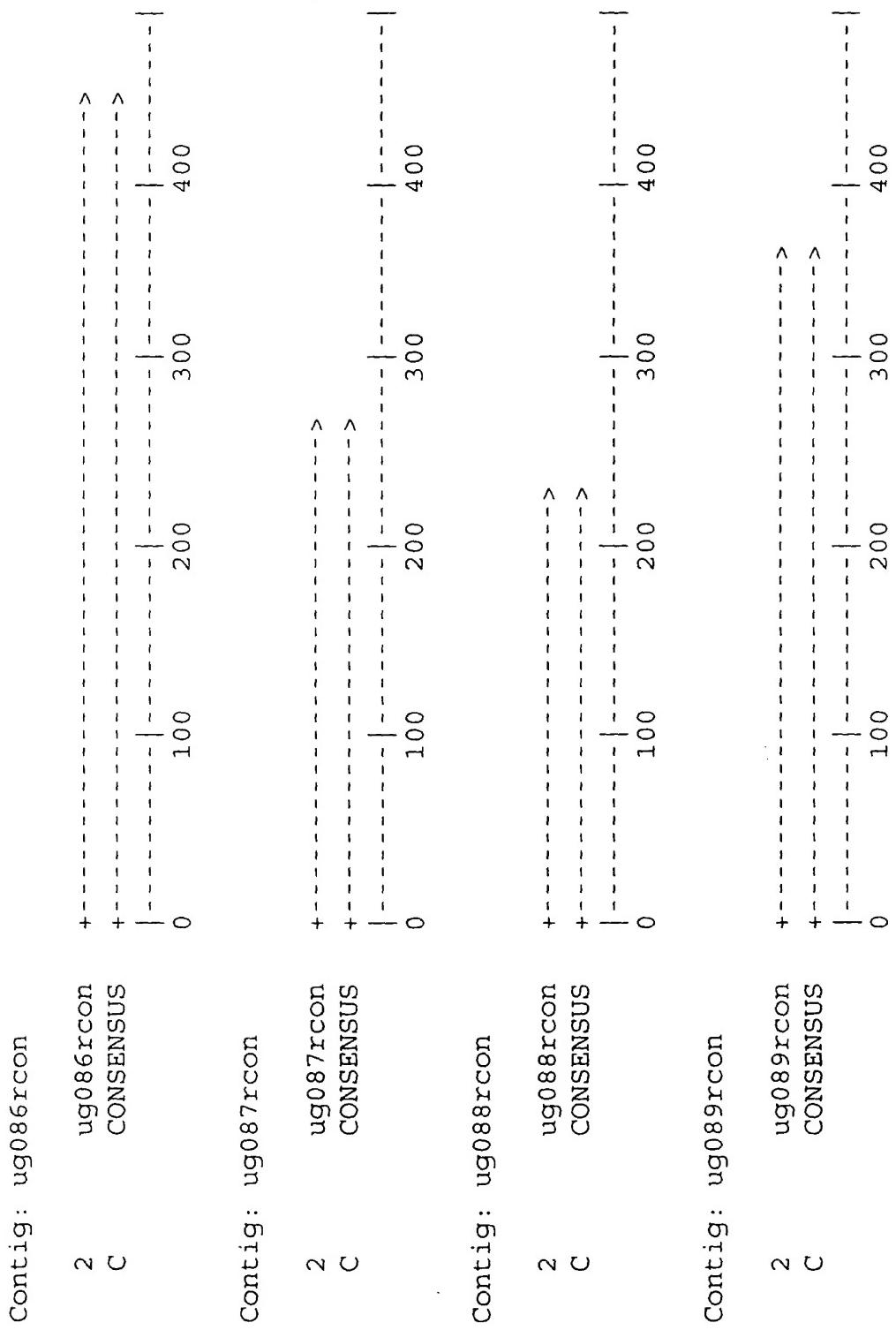
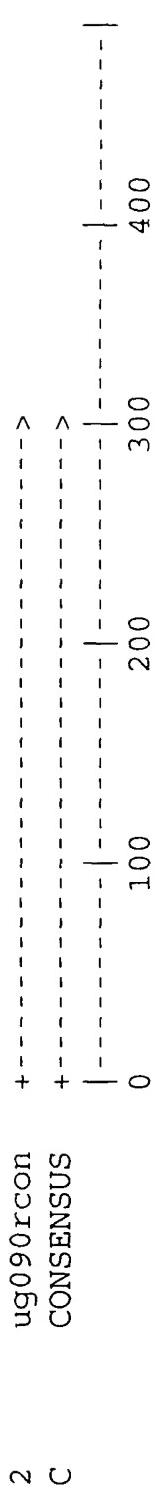


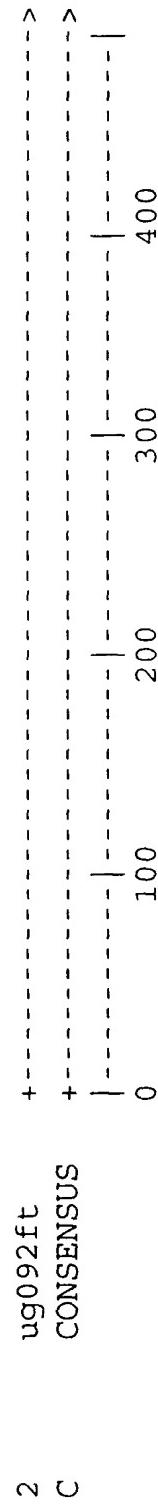
Fig. 8 - 28 of 180

296/472

Contig: ug090rcon



Contig: ug092ft



Contig: ug092ors

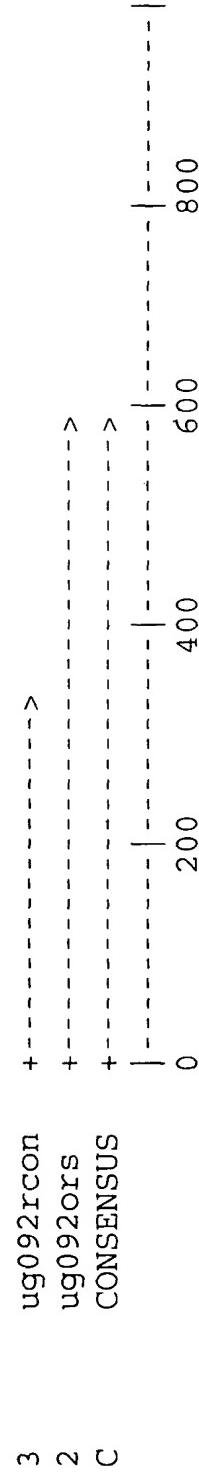


Fig. 8 - 29 of 180

297/472

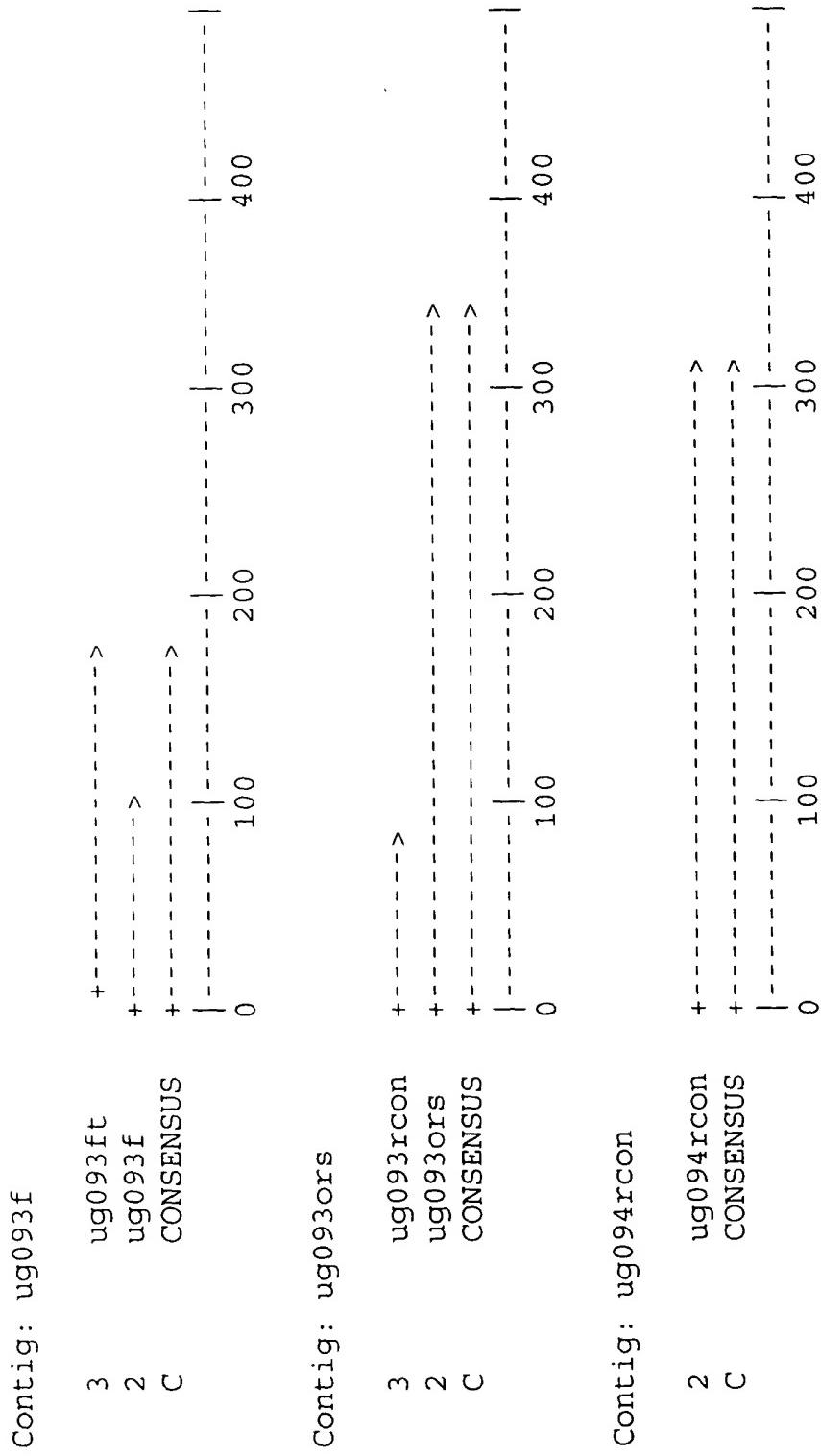


Fig. 8 - 30 of 180

298/472

Contig: ug095rcon

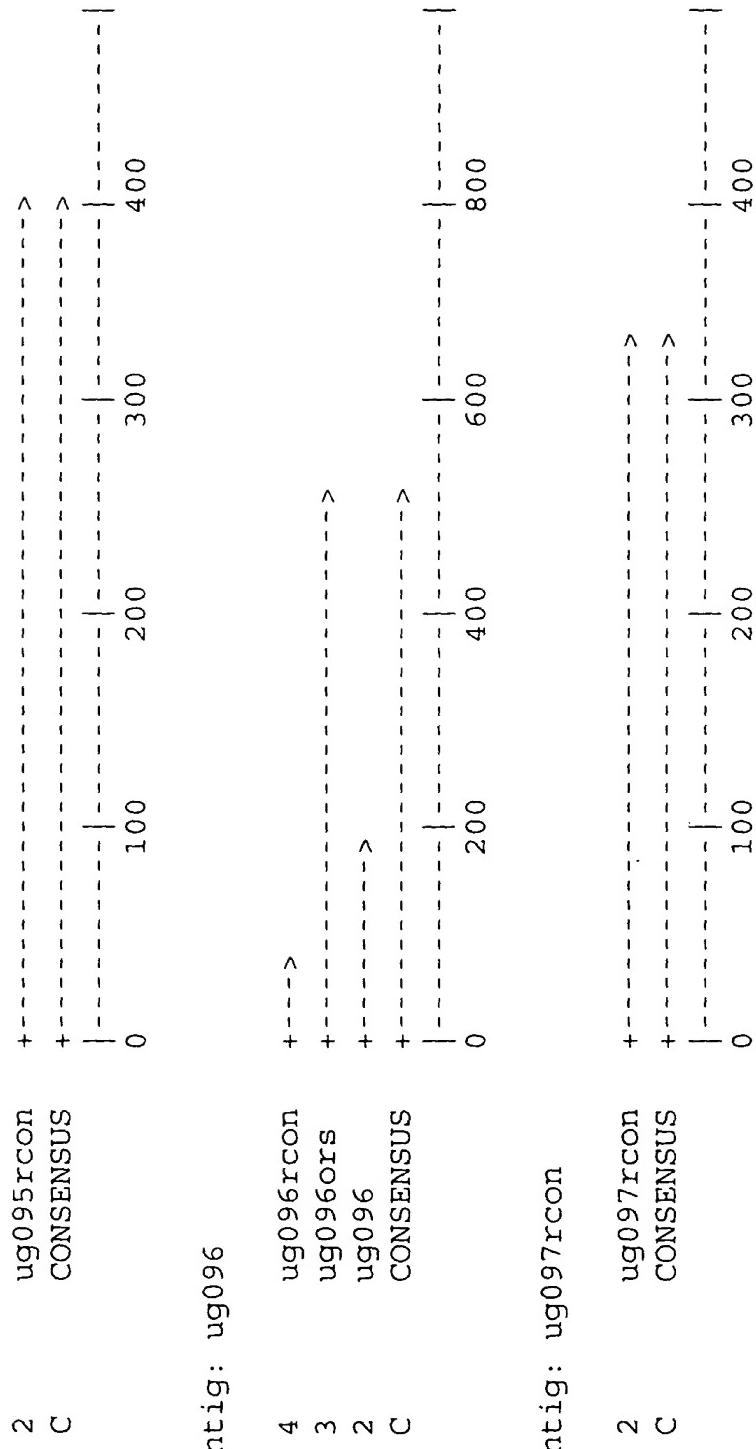


Fig. 8 - 31 of 180

299/472

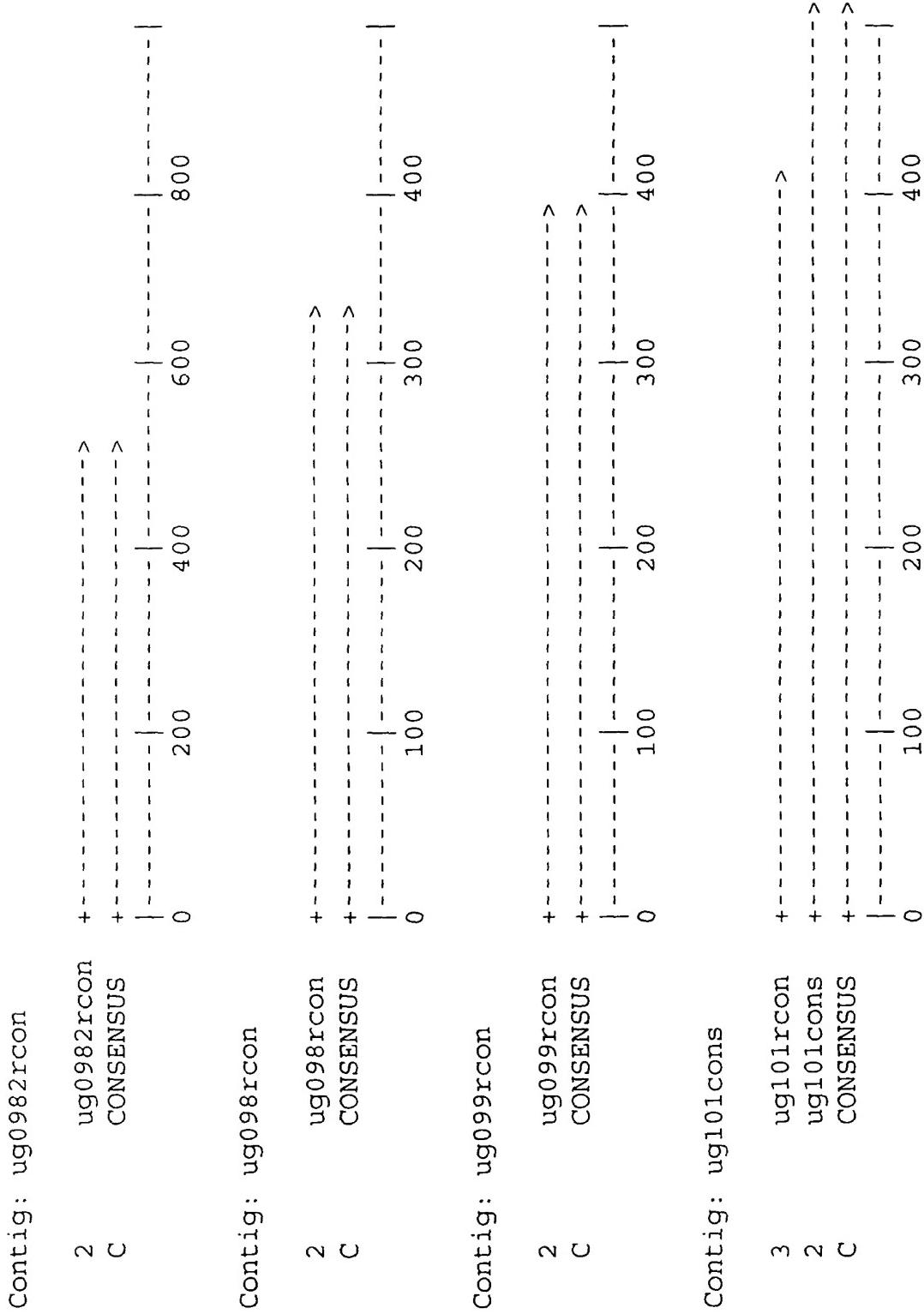
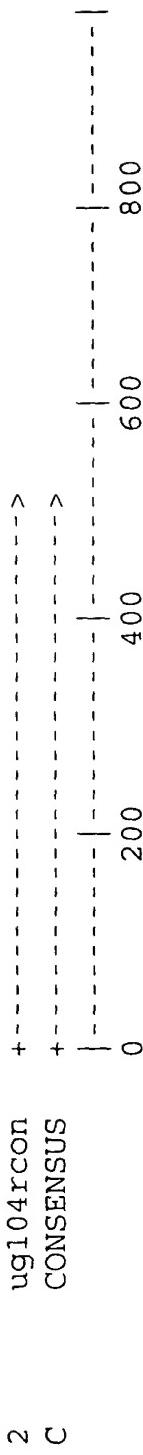


Fig. 8 - 32 of 180

300/472

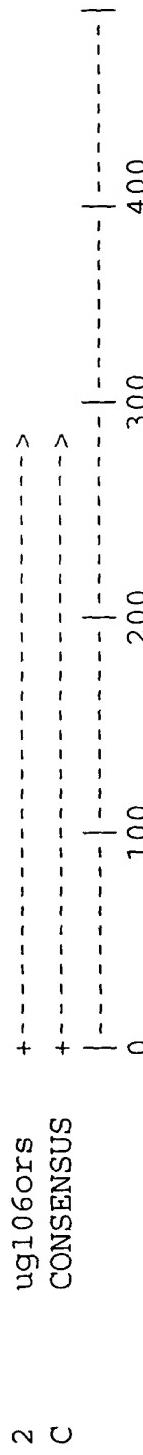
Contig: ug104rcon



Contig: ug106ft



Contig: ug106ors



Contig: ug106rcon

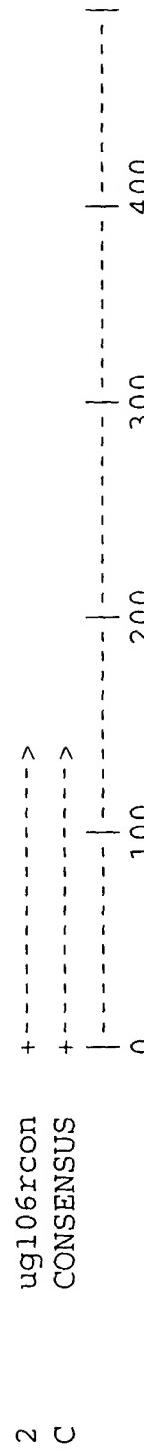
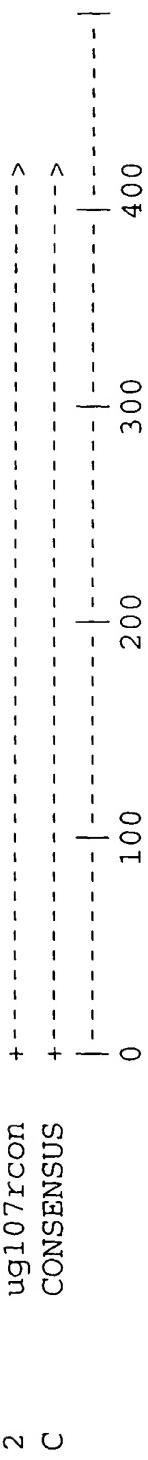


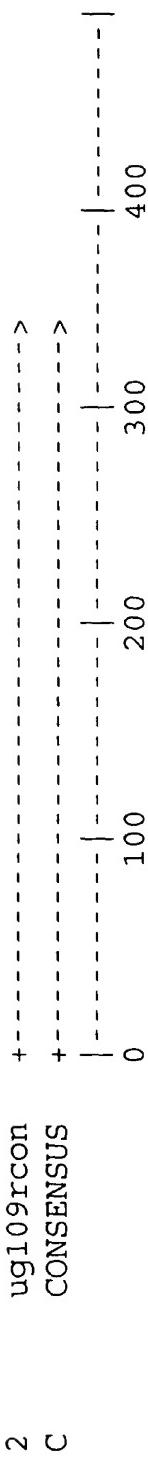
Fig. 8 - 33 of 180

301/472

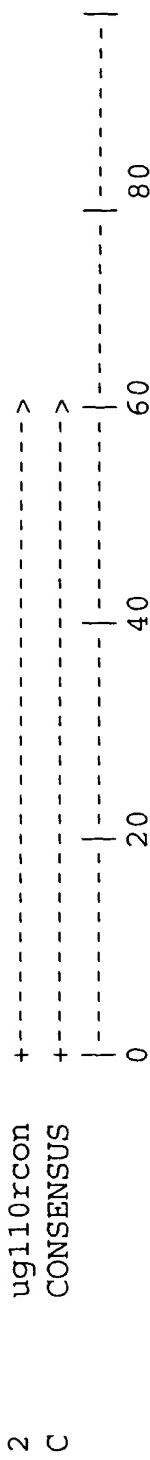
Contig: ug107rcon



Contig: ug109rcon



Contig: ug110rcon



Contig: ug111nov

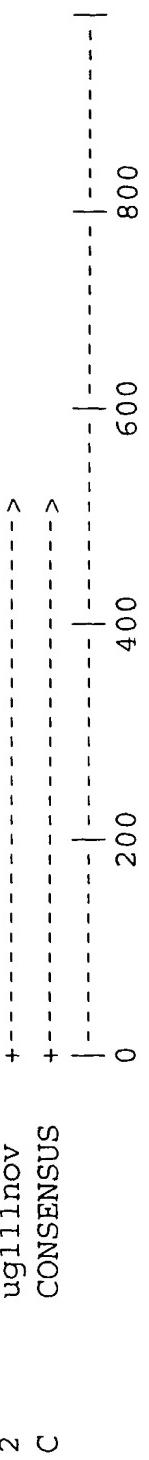
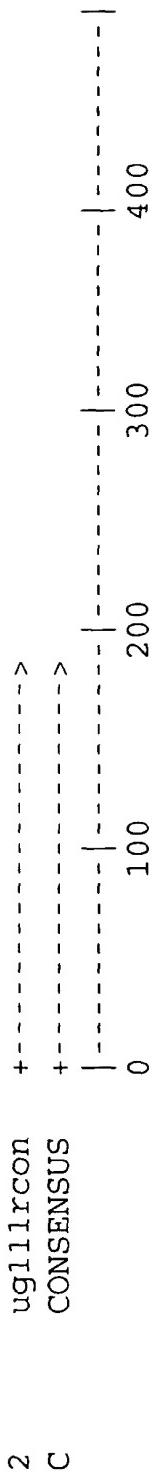


Fig. 8 - 34 of 180

302/472

Contig: ug111rcon



Contig: ug112



Contig: ug113rcnlo

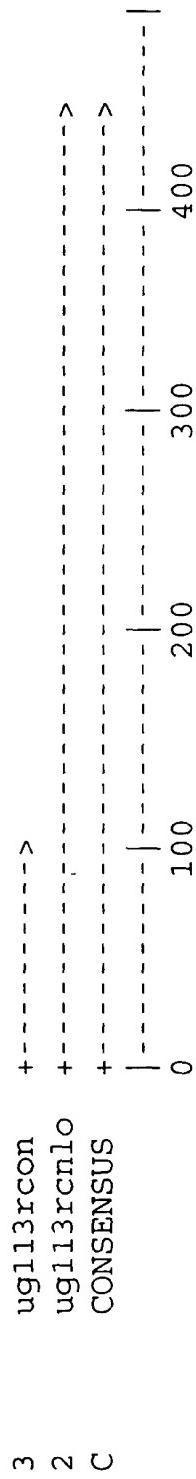


Fig. 8 - 35 of 180

303/472

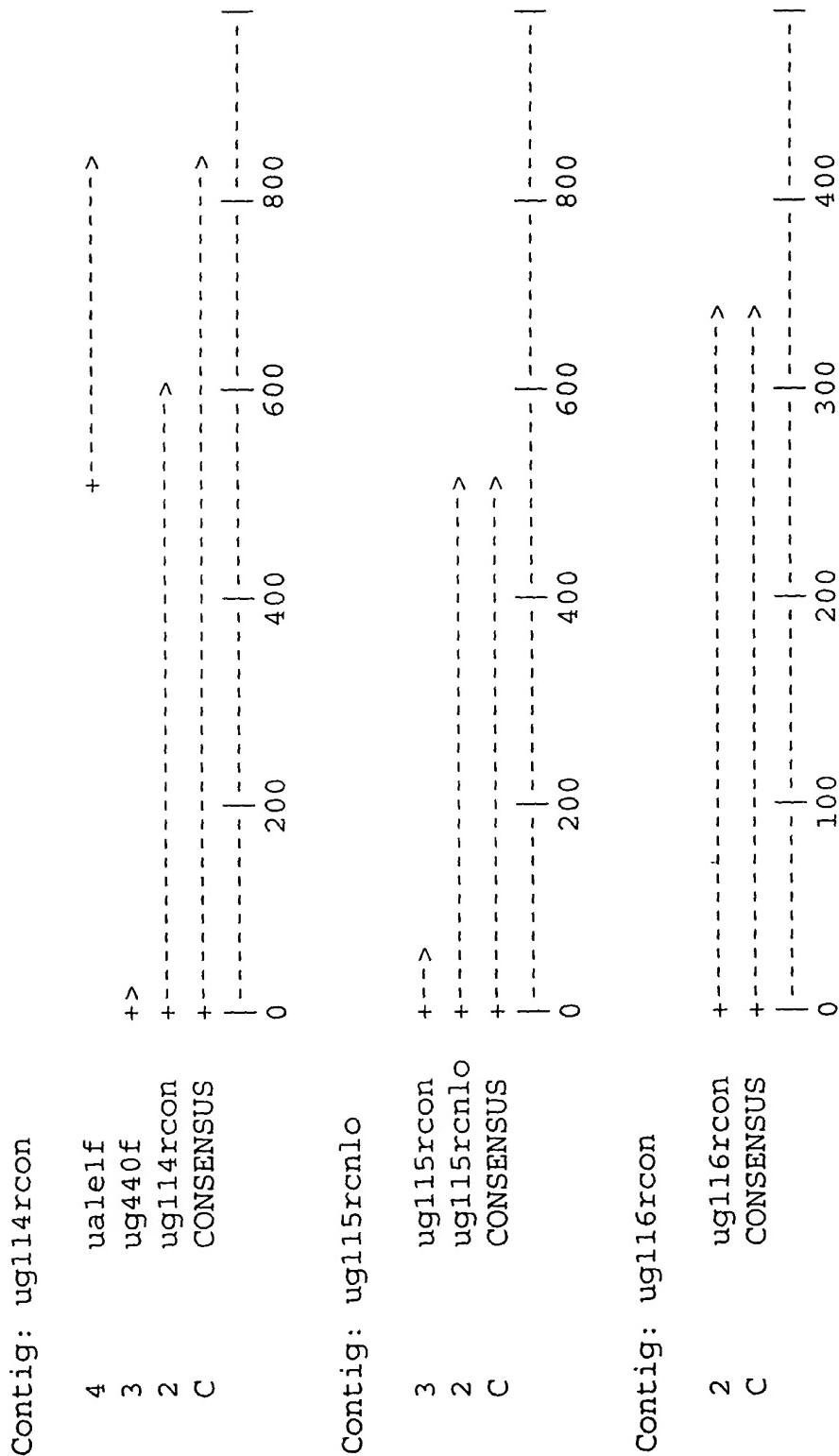


Fig. 8 - 36 of 180

304/472

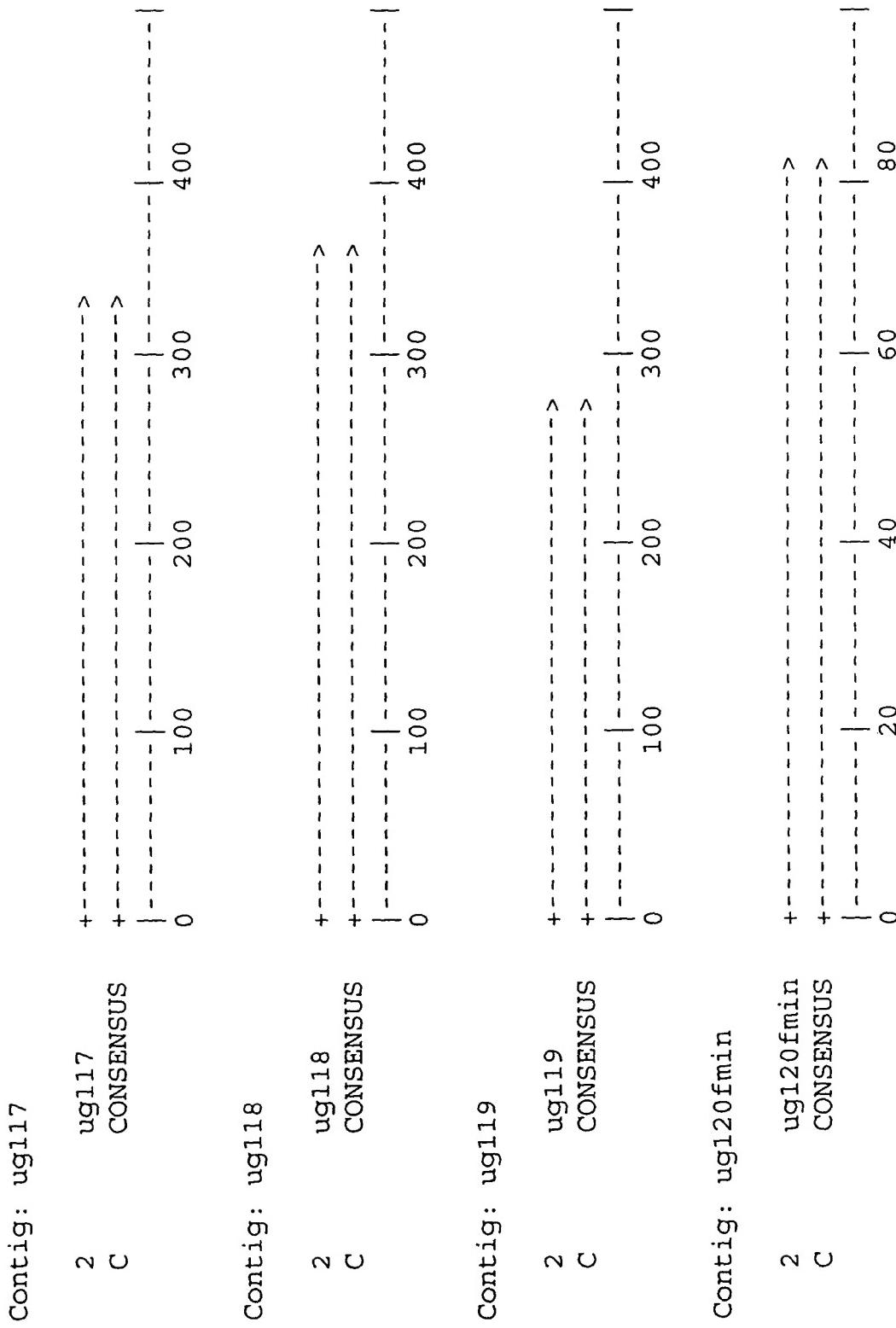


Fig. 8 - 37 of 180

305/472

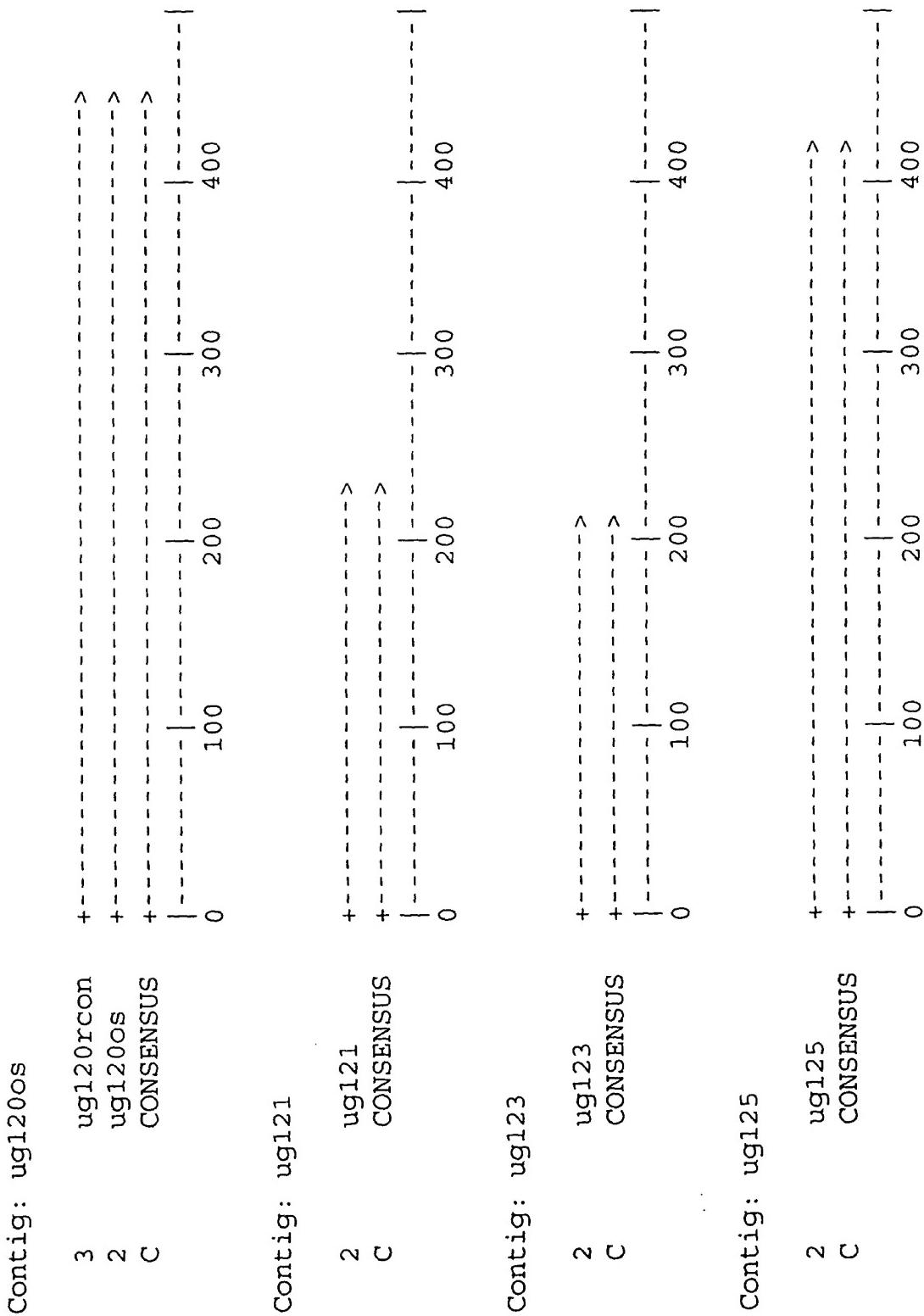
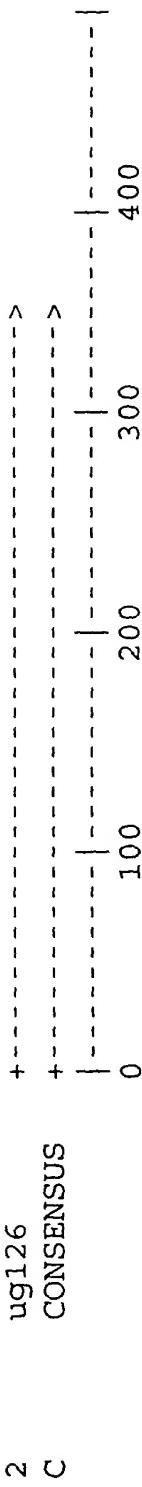


Fig. 8 - 38 of 180

306/472

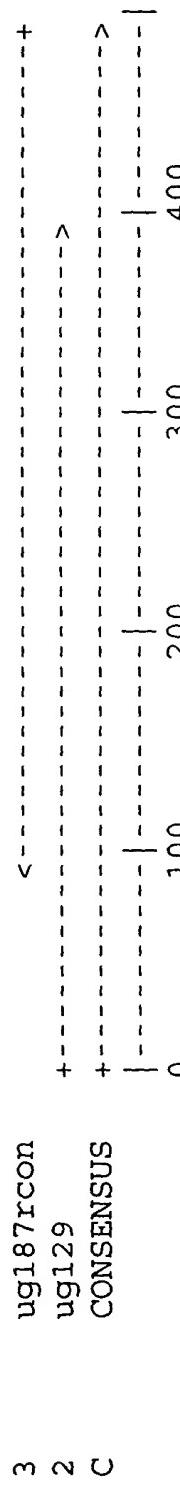
Contig: ug126



Contig: ug127



Contig: ug129



Contig: ug130

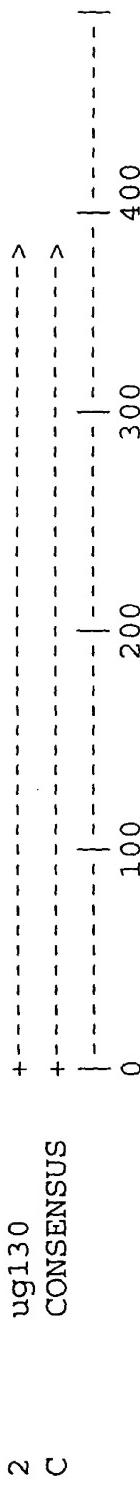
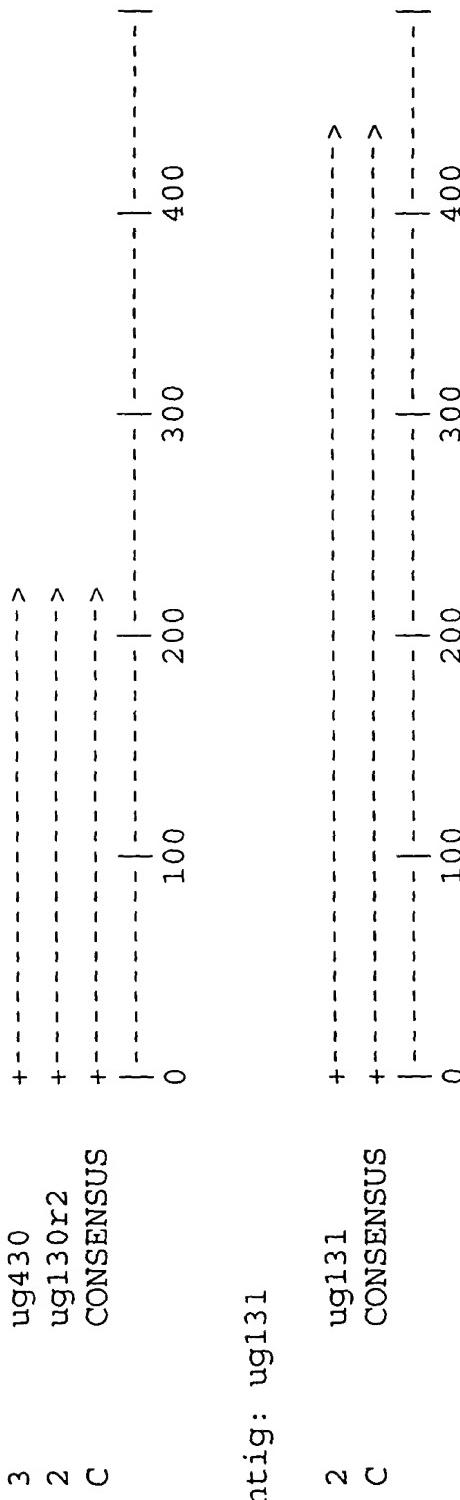


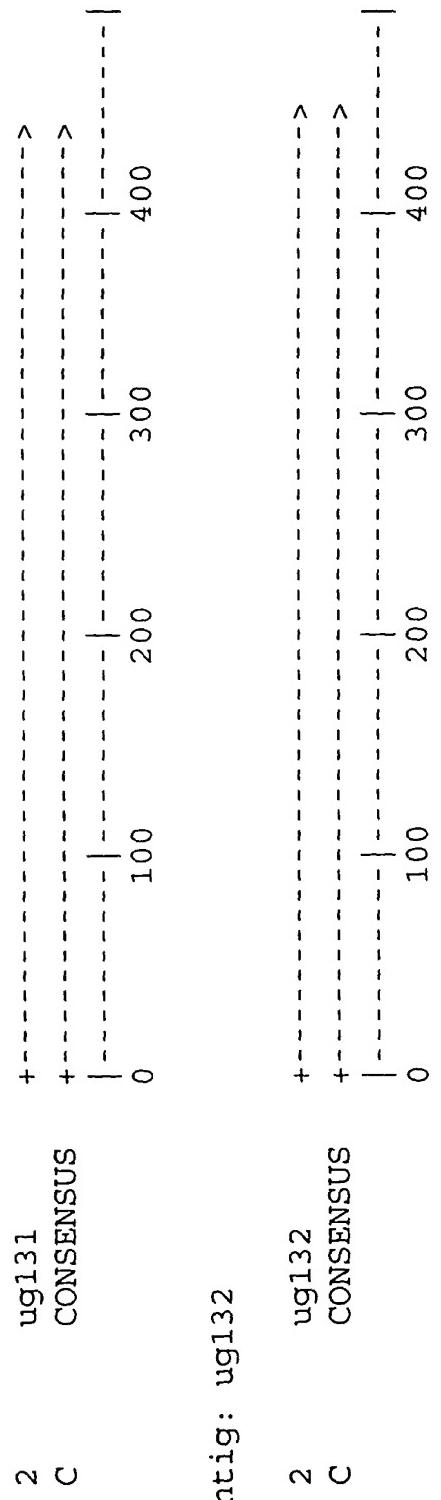
Fig. 8 - 39 of 180

307/472

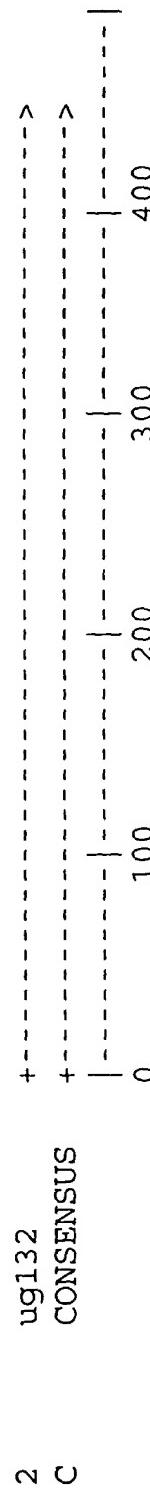
Contig: ug130r2



Contig: ug131



Contig: ug132



Contig: ug133

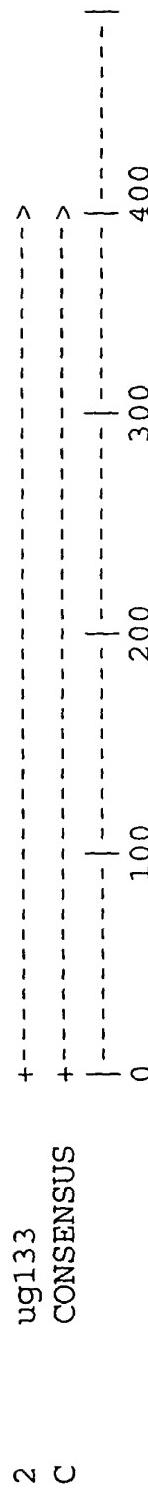
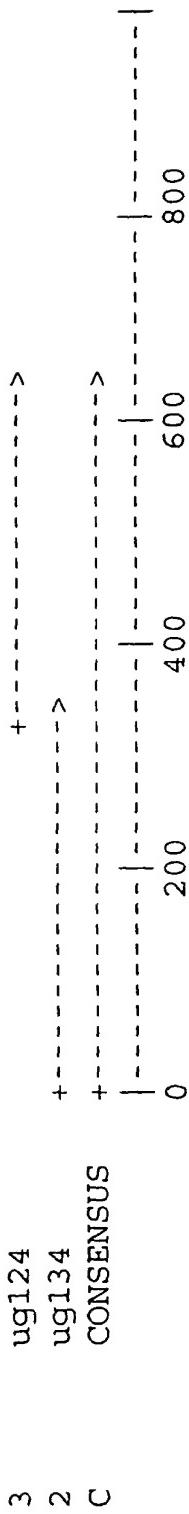


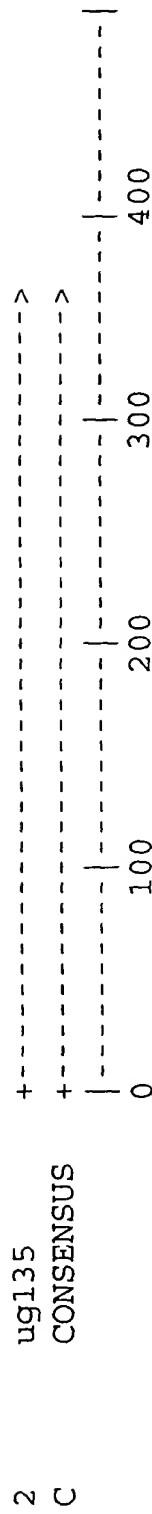
Fig. 8 - 40 of 180

308/472

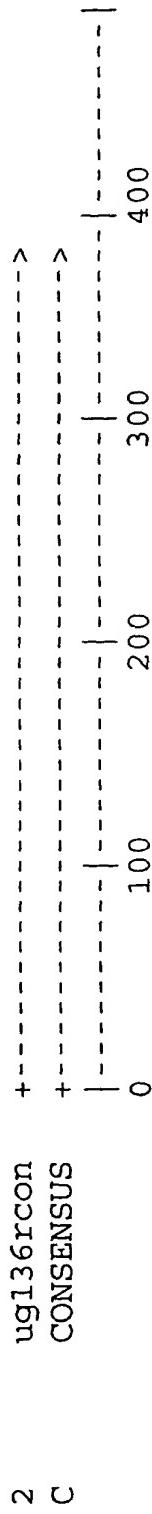
Contig: ug134



Contig: ug135



Contig: ug136rcon



Contig: ug138

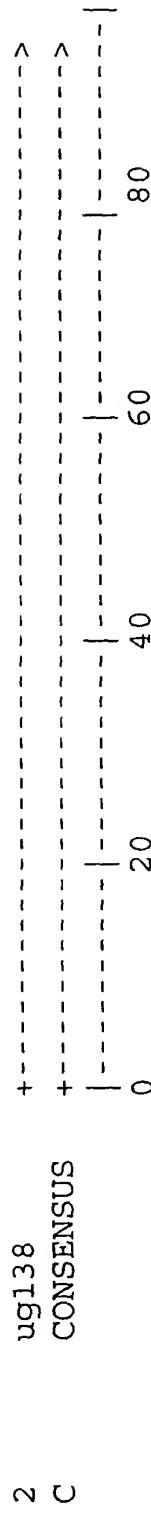
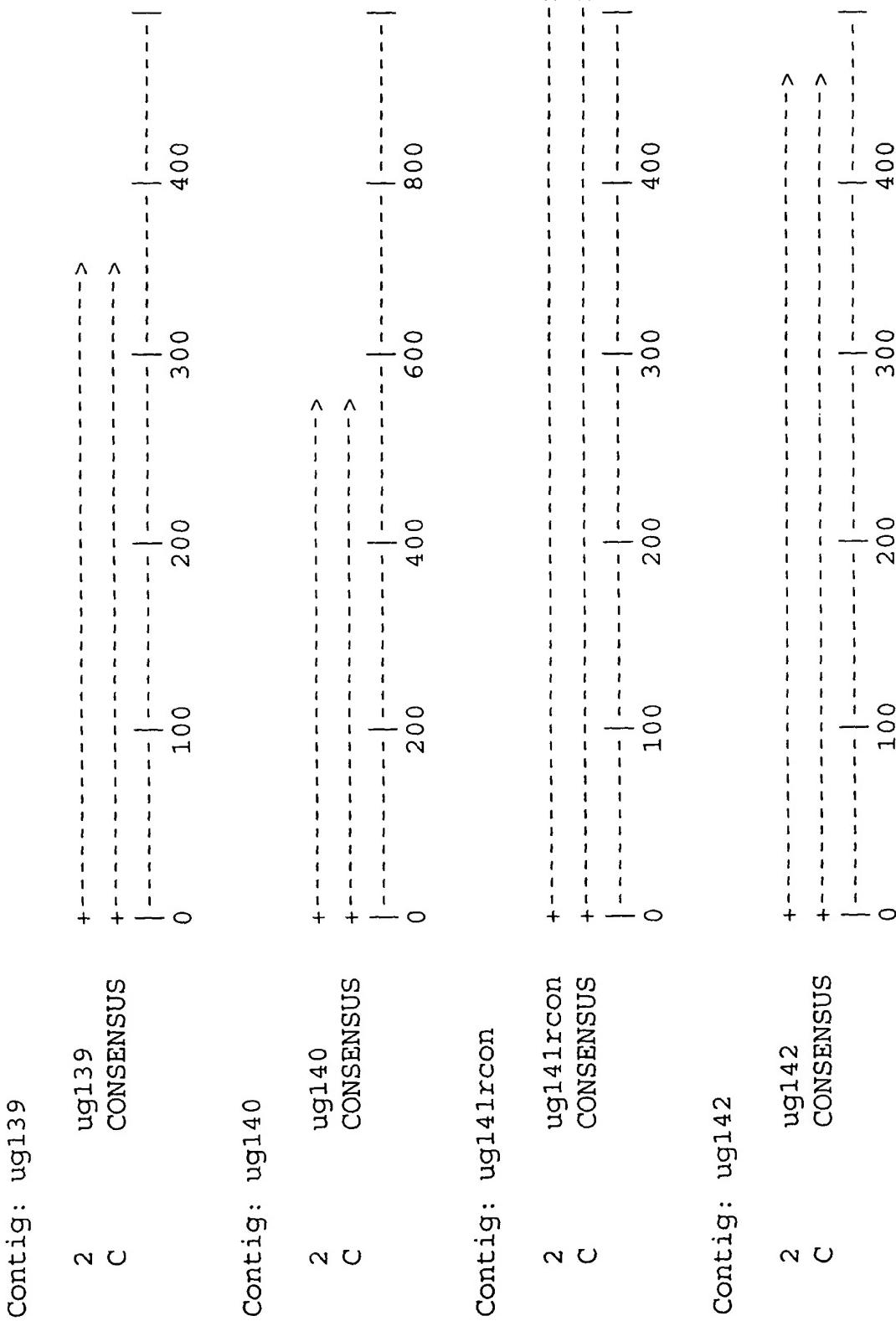


Fig. 8 - 41 of 180

309/472



316/472

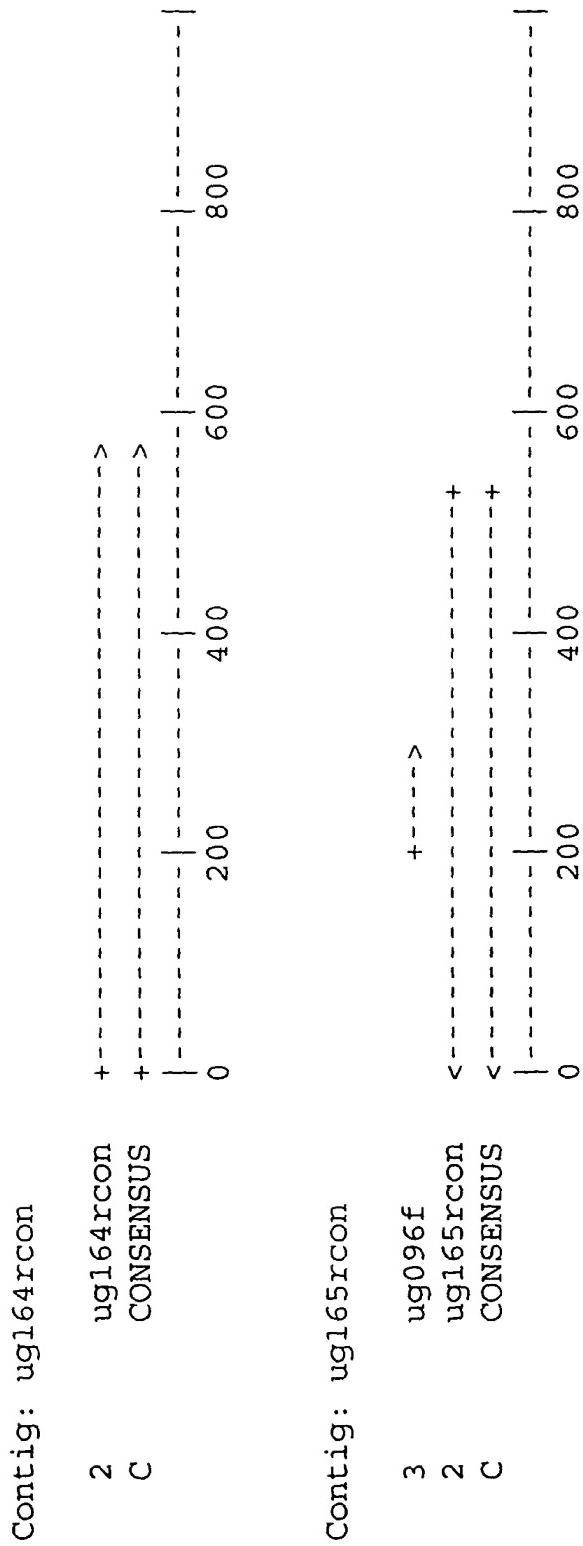


Fig. 8 - 49 of 180

317/472

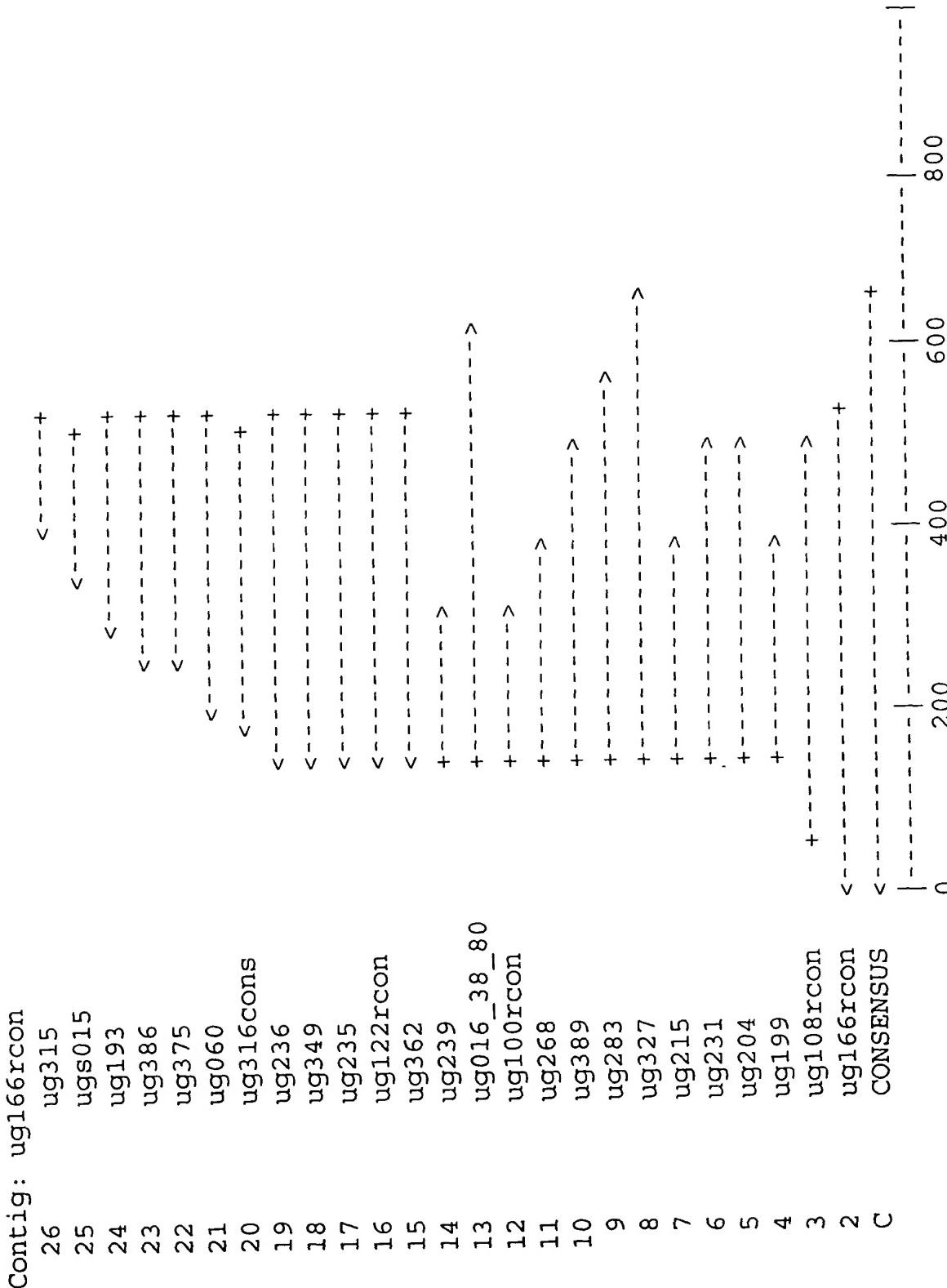
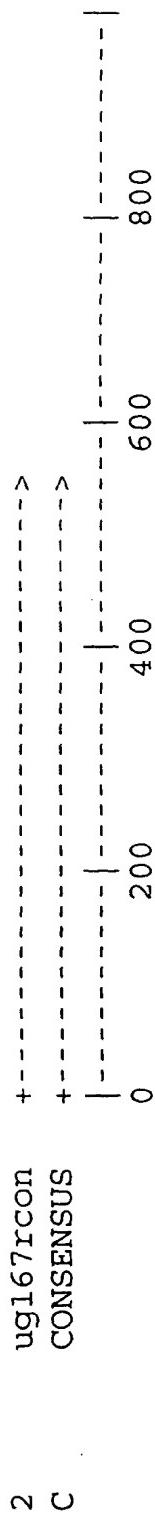


Fig. 8 - 50 of 180

318/472

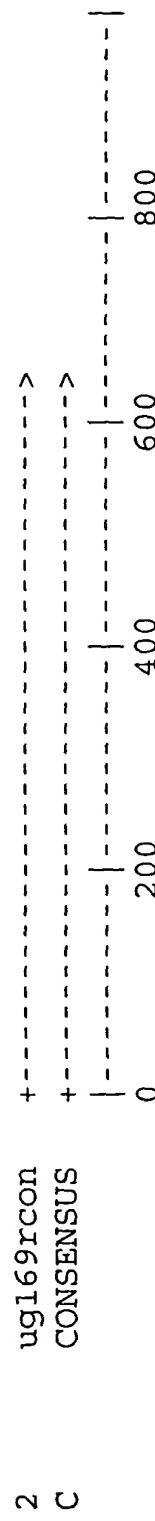
Contig: ug167rcon



Contig: ug168rcon



Contig: ug169rcon



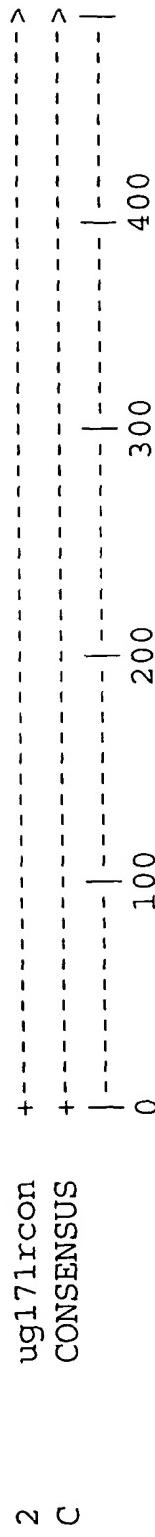
Contig: ug170rcon



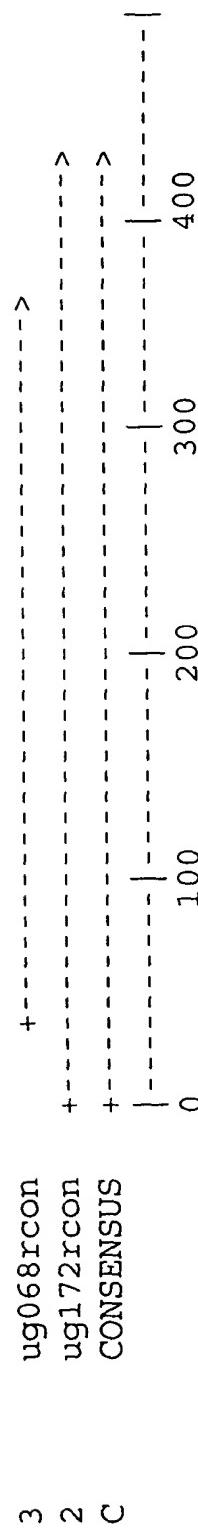
Fig. 8 - 51 of 180

319/472

Contig: ug171rcon



Contig: ug172rcon



Contig: ug173rcon

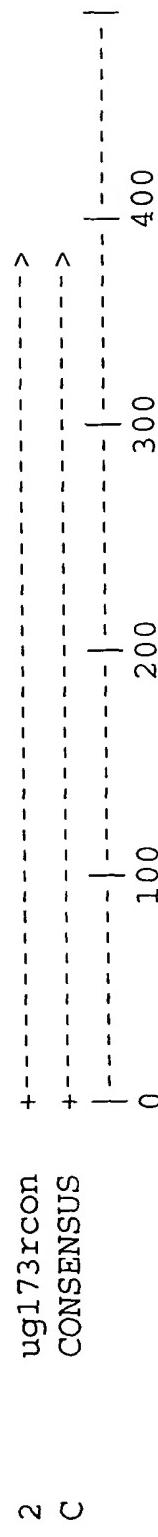
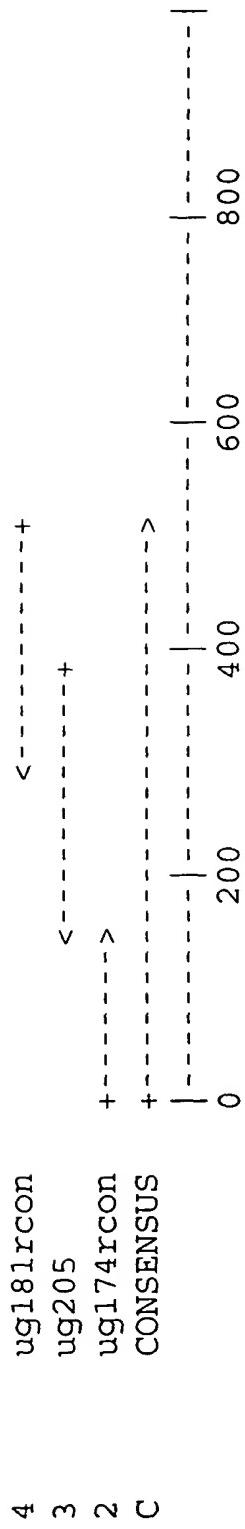


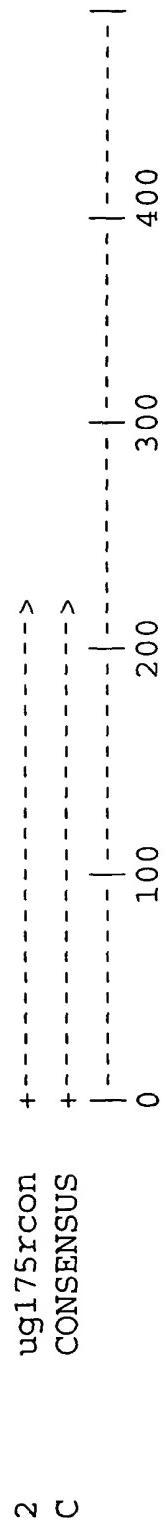
Fig. 8 - 52 of 180

320/472

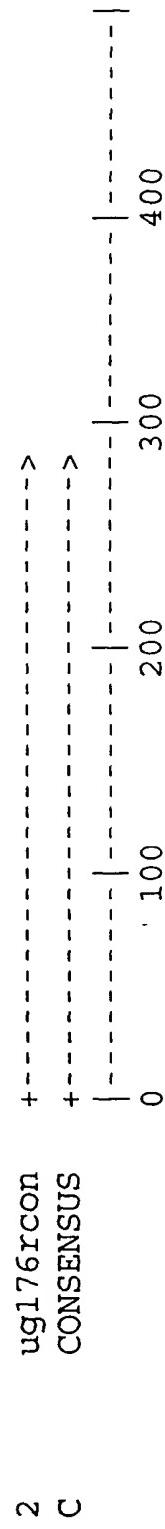
Contig: ug174rcon



Contig: ug175rcon



Contig: ug176rcon



Contig: ug177rcon

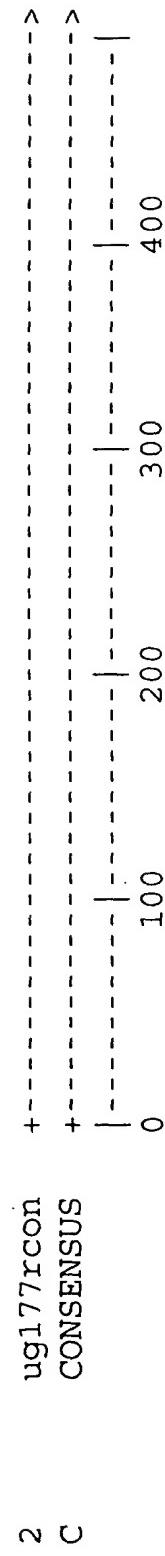
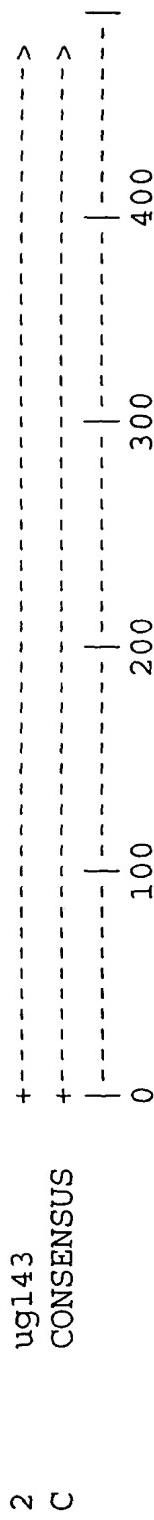


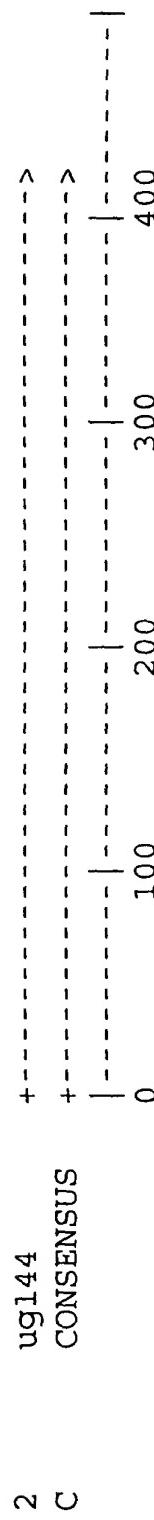
Fig. 8 - 53 of 180

310/472

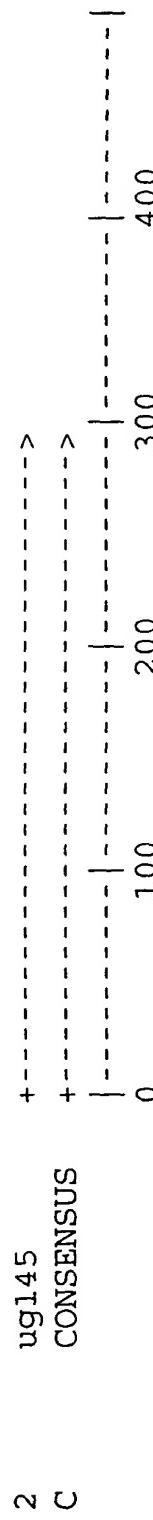
Contig: ug143



Contig: ug144



Contig: ug145



Contig: ug146

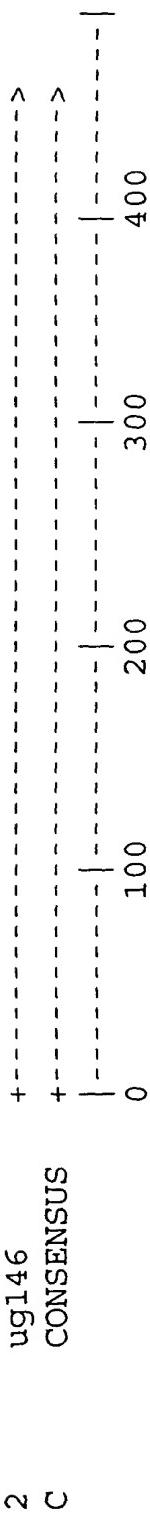
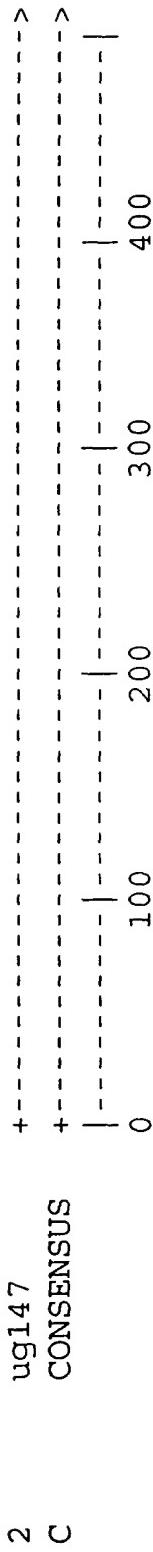


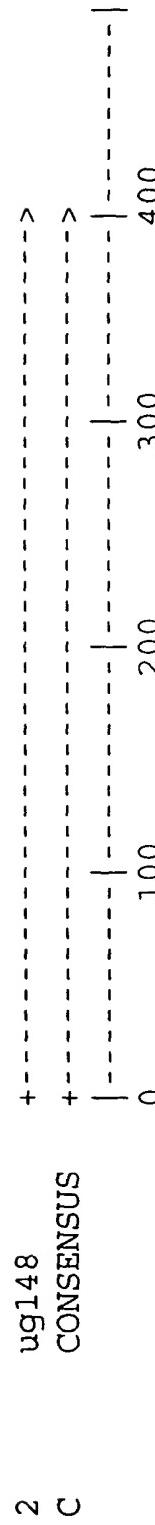
Fig. 8 - 43 of 180

311/472

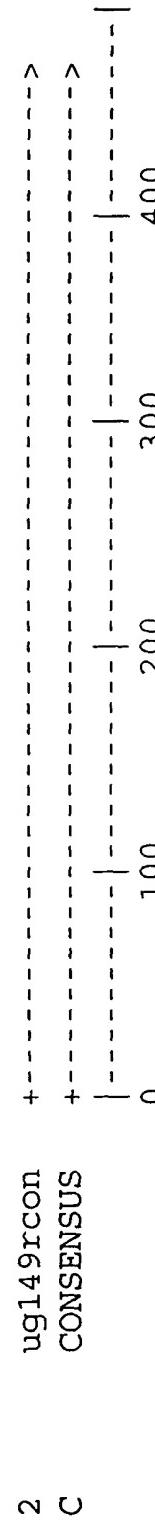
Contig: ug147



Contig: ug148



Contig: ug149rcon



Contig: ug150rcon

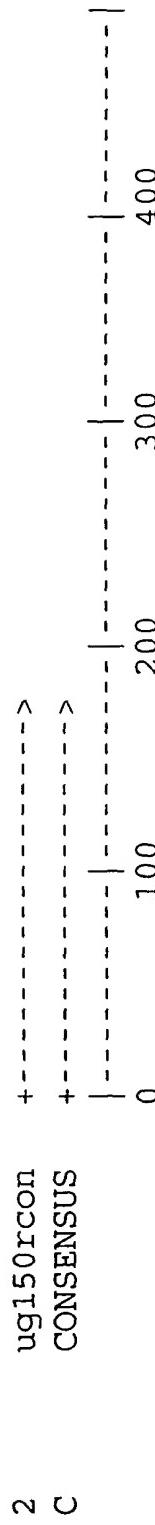
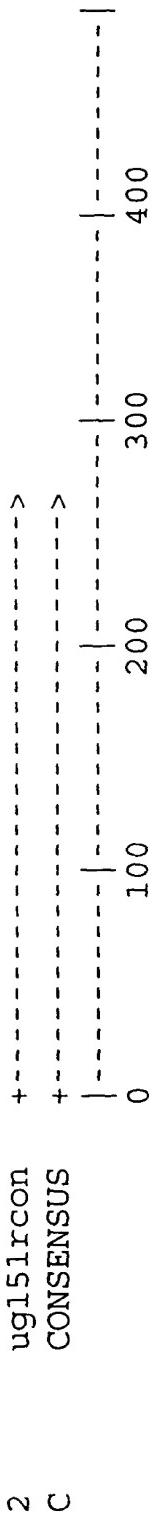


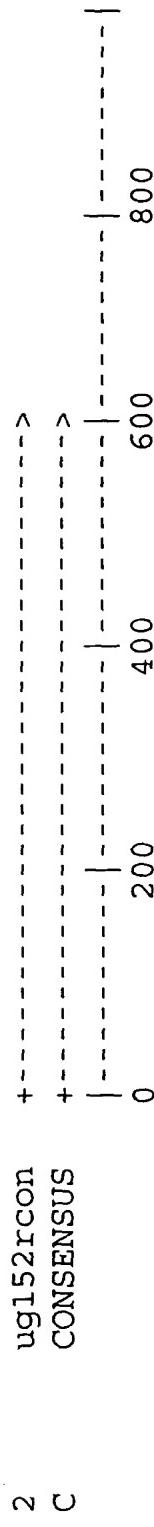
Fig. 8 - 44 of 180

312/472

Contig: ug151rcon



Contig: ug152rcon



Contig: ug153rcon

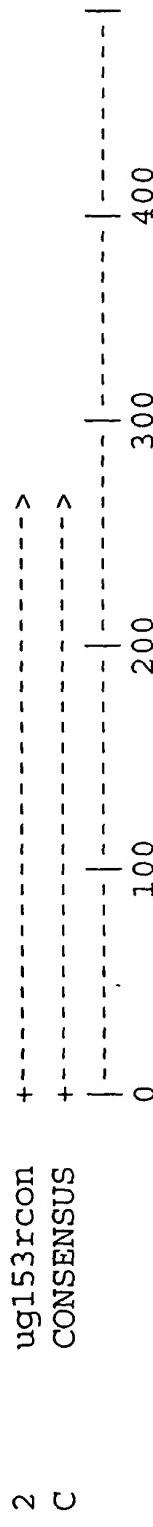
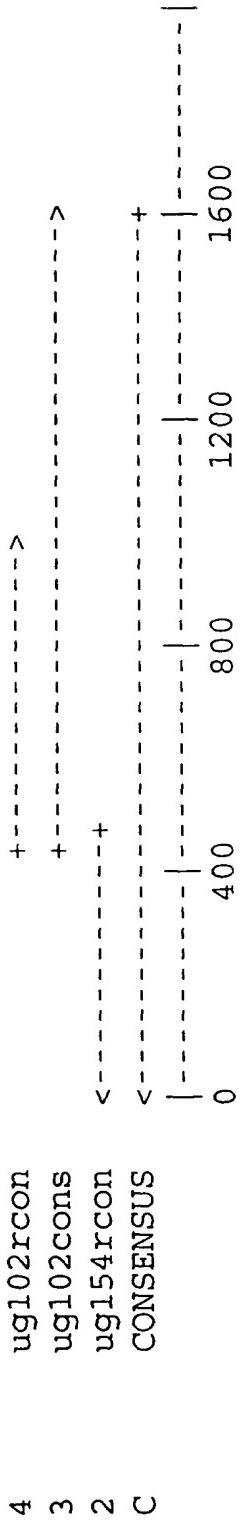


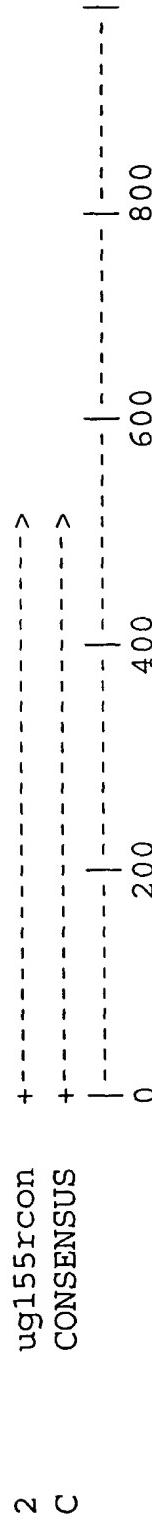
Fig. 8 - 45 of 180

313/472

Contig: ug154rcon



Contig: ug155rcon



Contig: ug156rcon



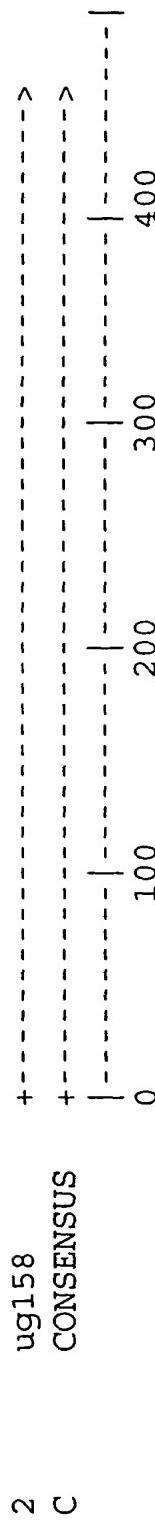
Fig. 8 - 46 of 180

314/472

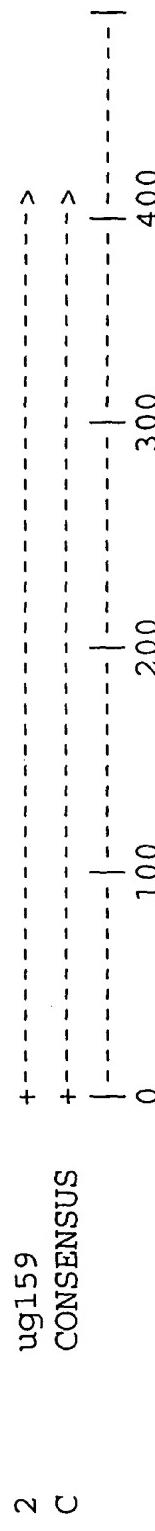
Contig: ug157rcon



Contig: ug158



Contig: ug159



Contig: ug160

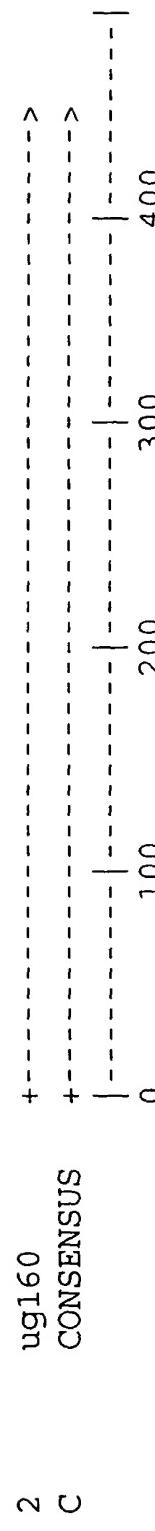
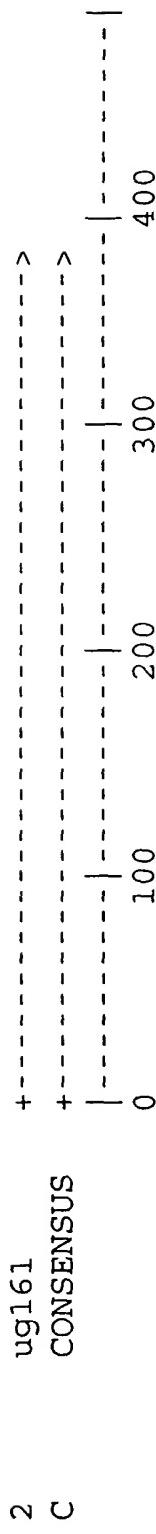


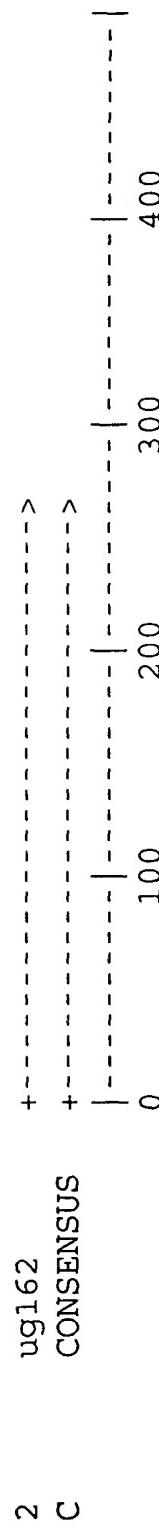
Fig. 8 - 47 of 180

315/472

Contig: ug161



Contig: ug162



Contig: ug163rcon

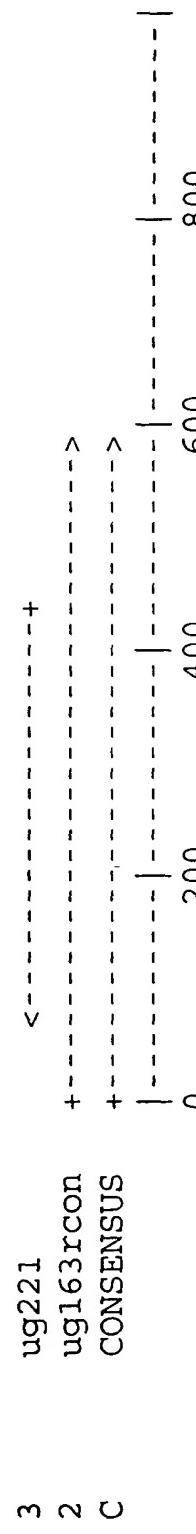


Fig. 8 - 48 of 180

321/472

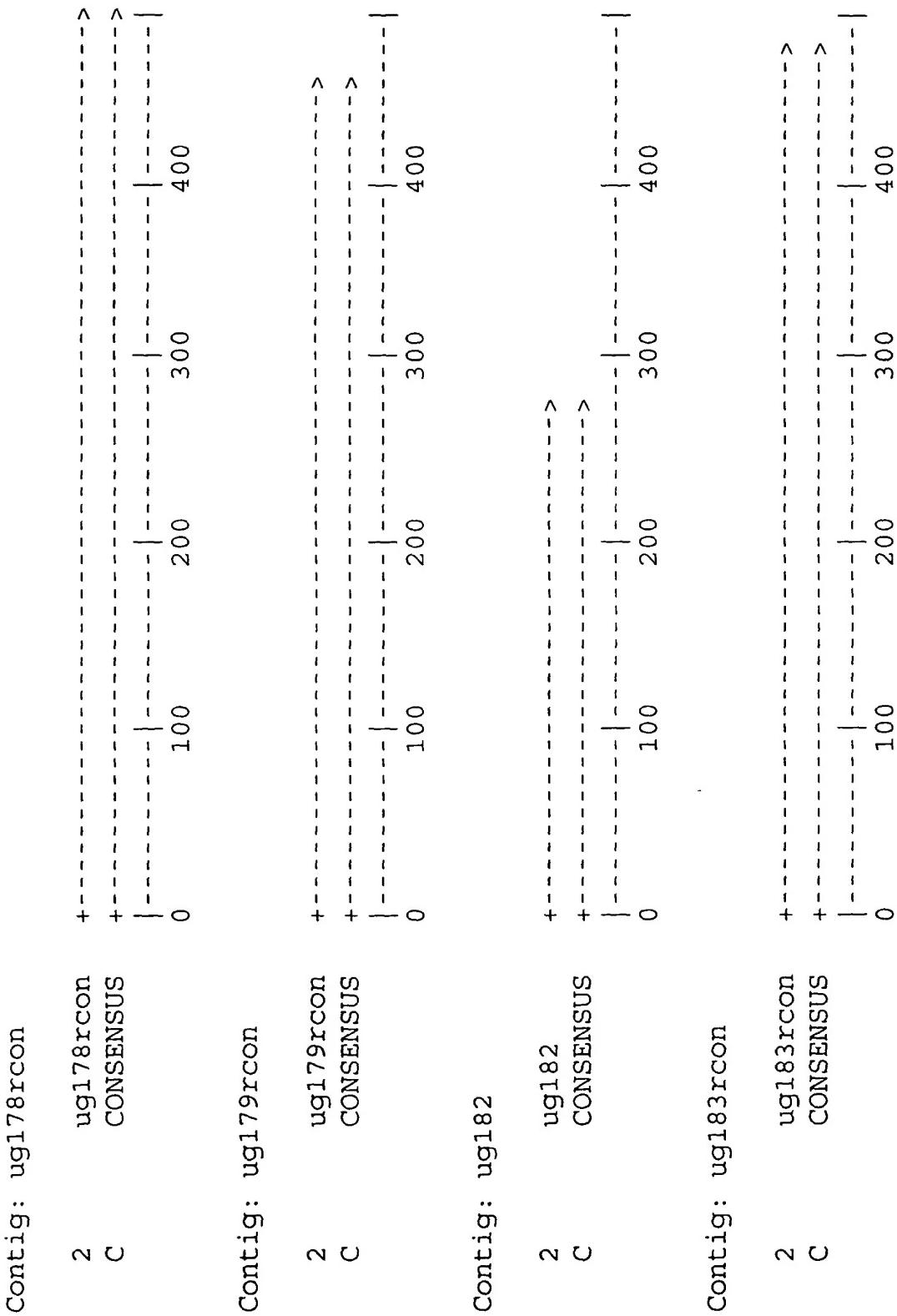
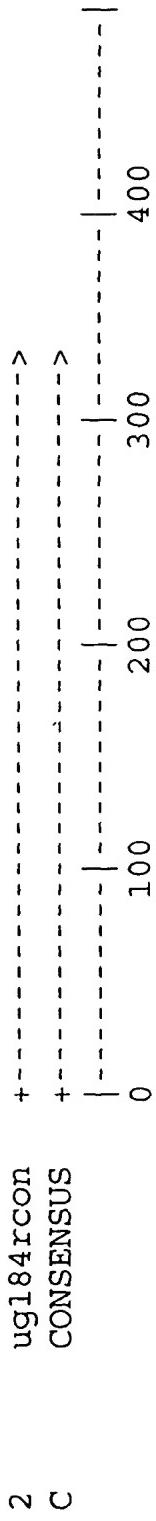


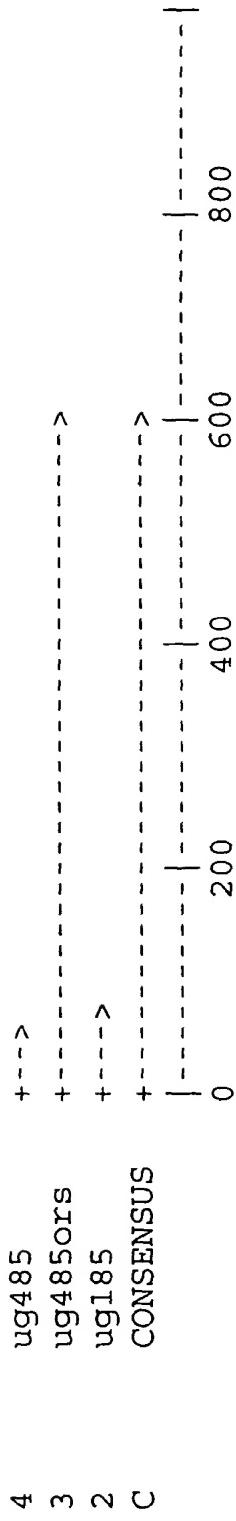
Fig. 8 - 54 of 180

322/472

Contig: ug184rcon



Contig: ug185



Contig: ug185rcon



Contig: ug186rcon

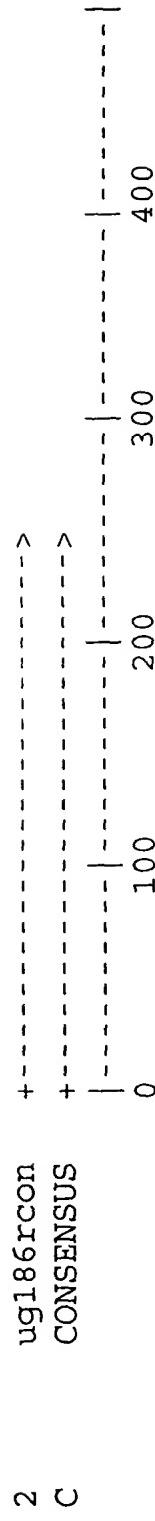
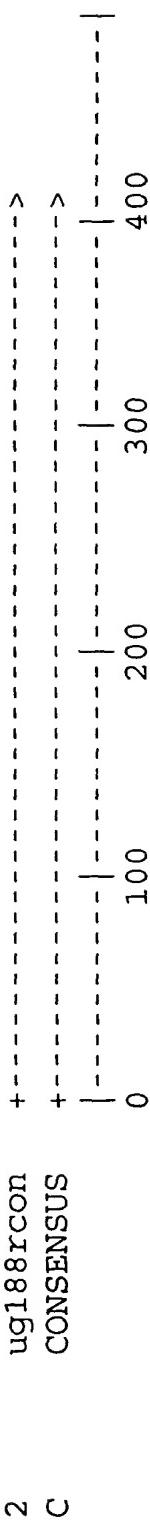


Fig. 8 - 55 of 180

323/472

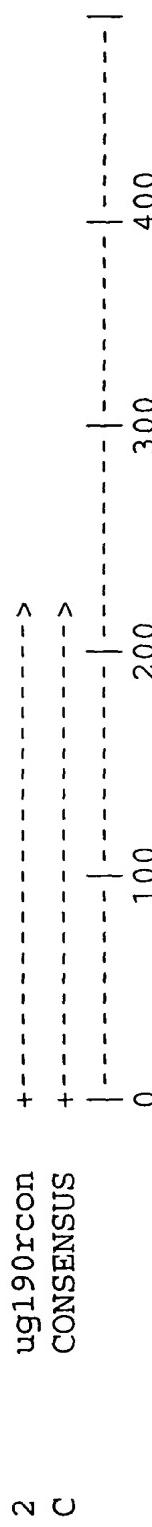
Contig: ug188rcon



Contig: ug189rcon



Contig: ug190rcon



Contig: ug191rcon

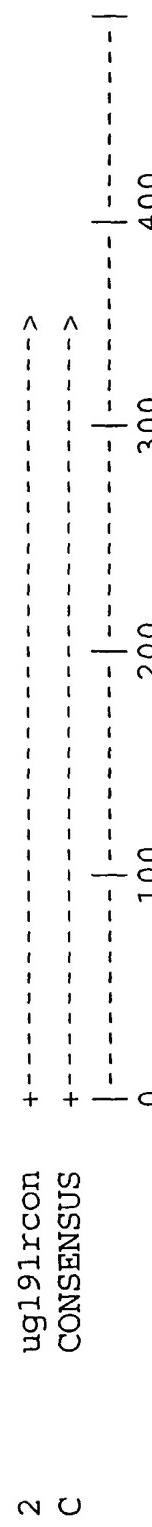
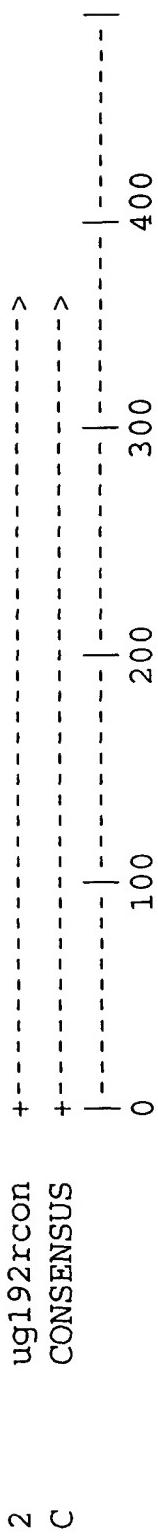


Fig. 8 - 56 of 180

324/472

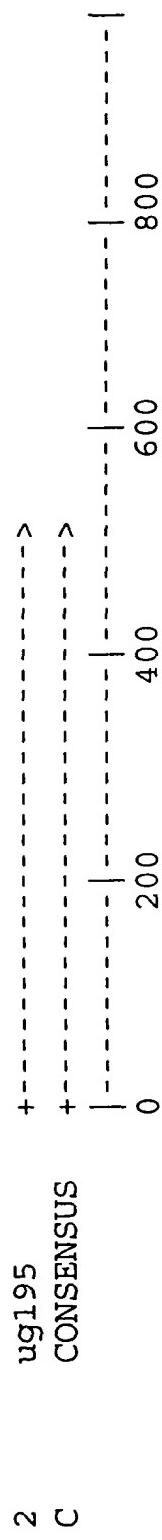
Contig: ug192rcon



Contig: ug194



Contig: ug195



Contig: ug197

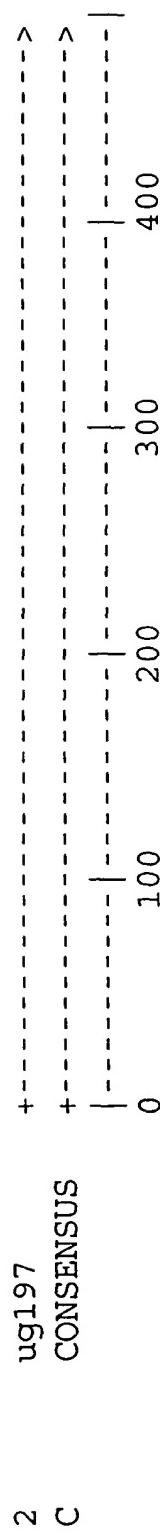
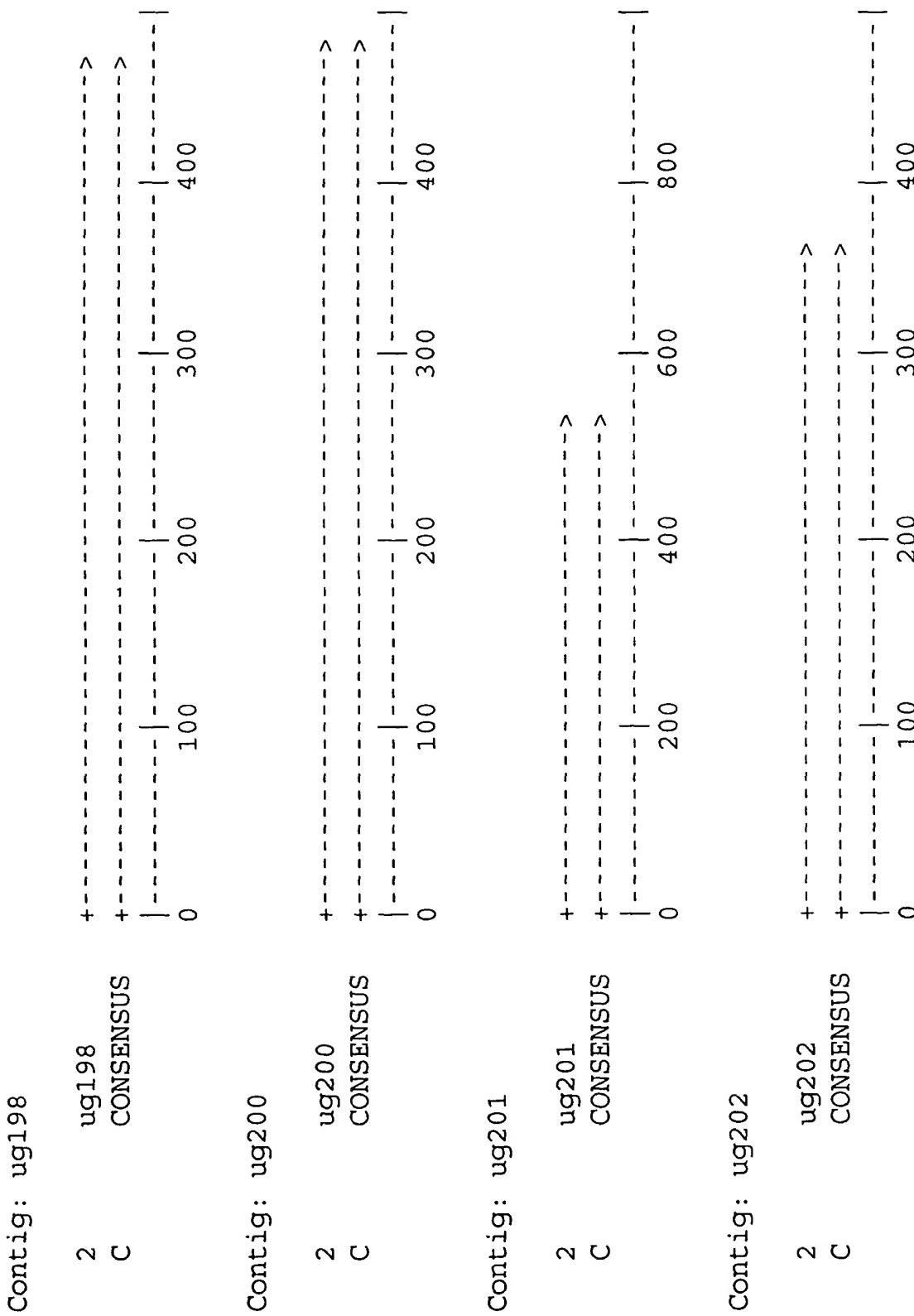


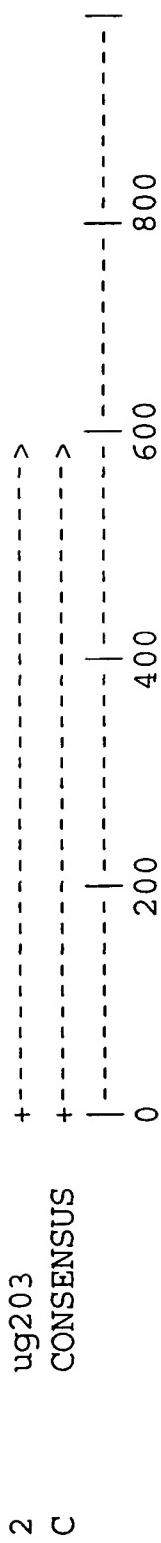
Fig. 8 - 57 of 180

325/472

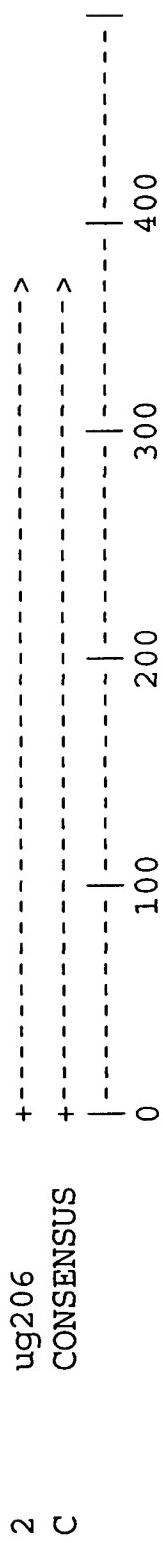


326/472

Contig: ug203



Contig: ug206



Contig: ug207



Contig: ug209

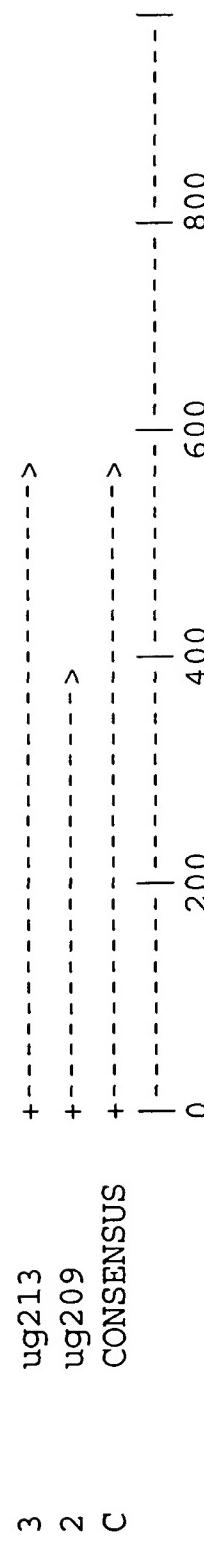
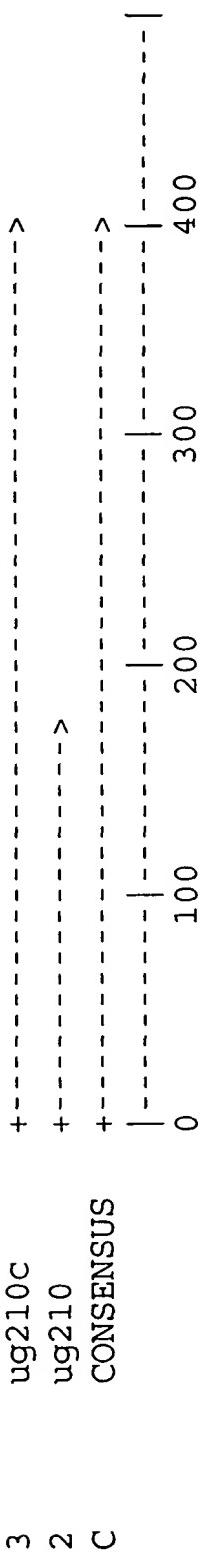


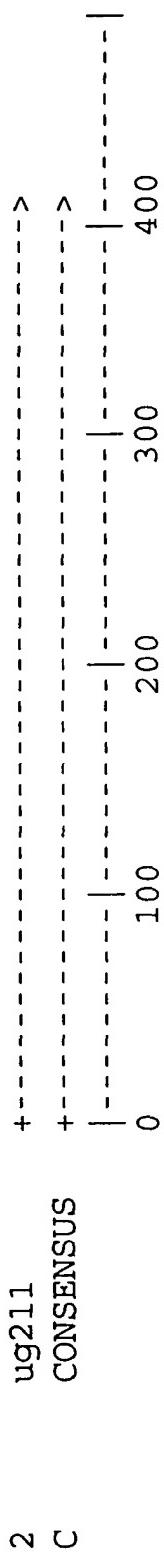
Fig. 8 - 59 of 180

327/472

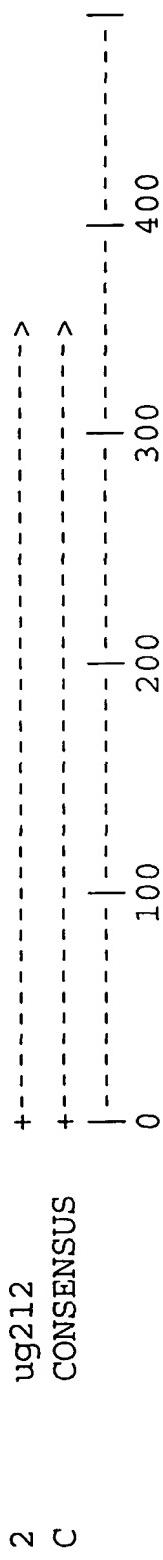
Contig: ug210



Contig: ug211



Contig: ug212



Contig: ug214

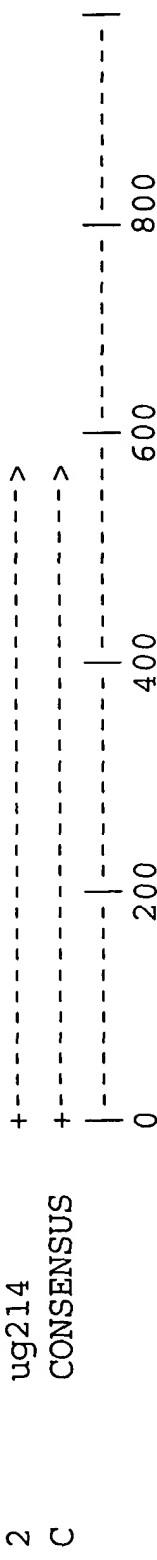


Fig. 8 - 60 of 180

328/472

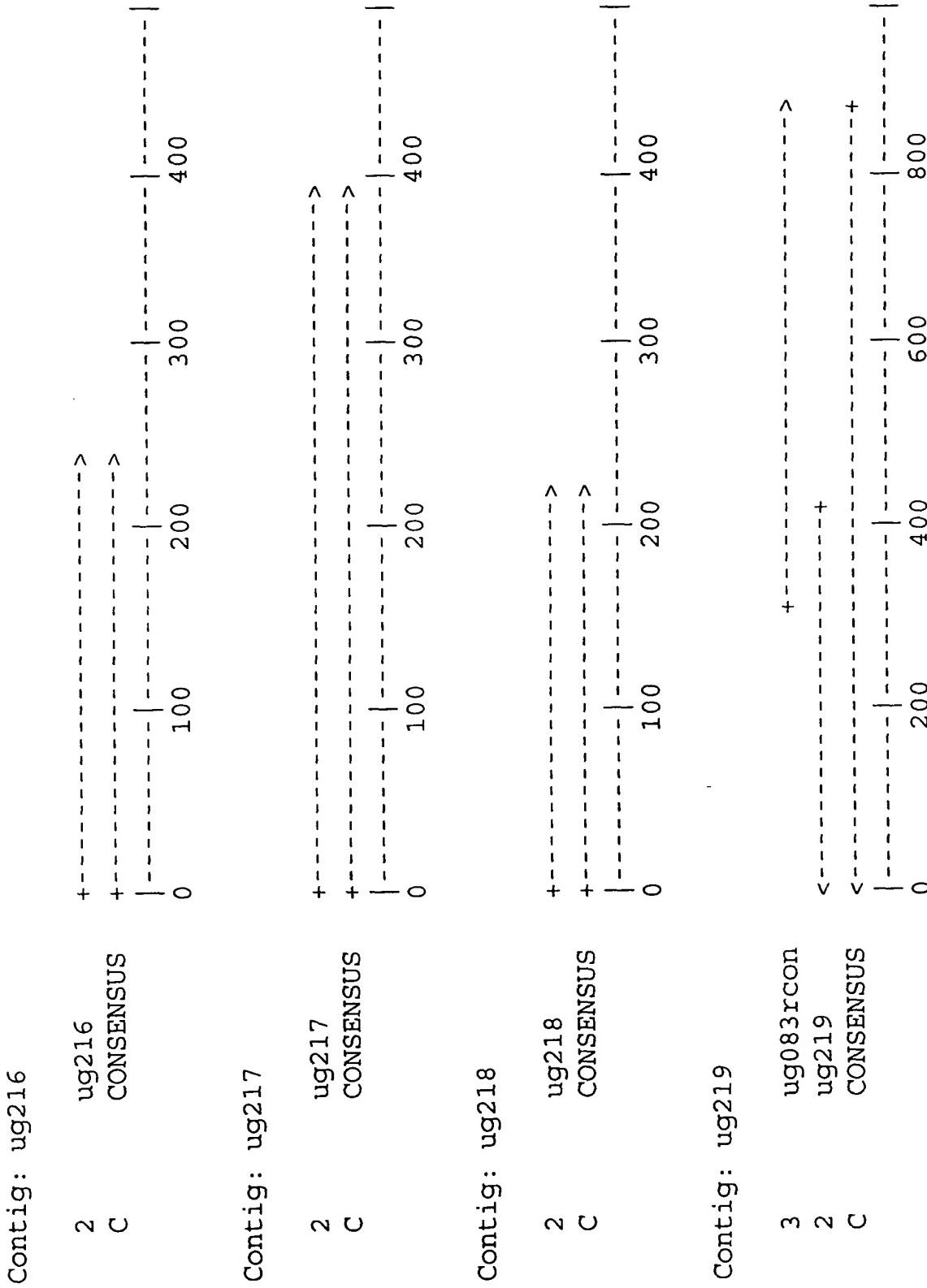
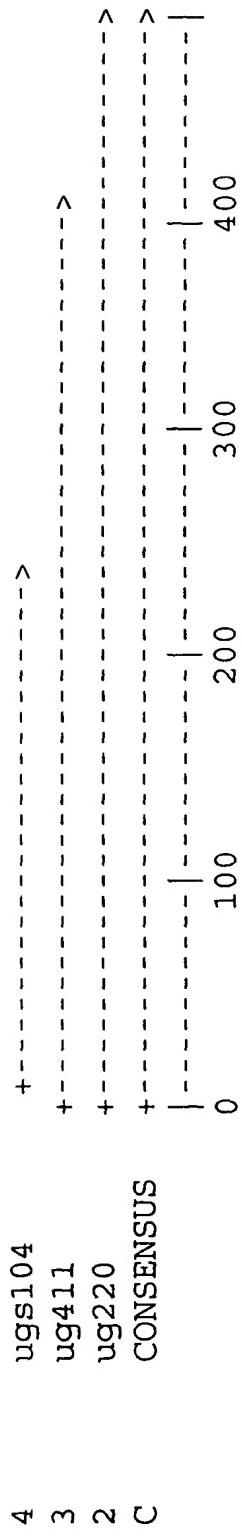


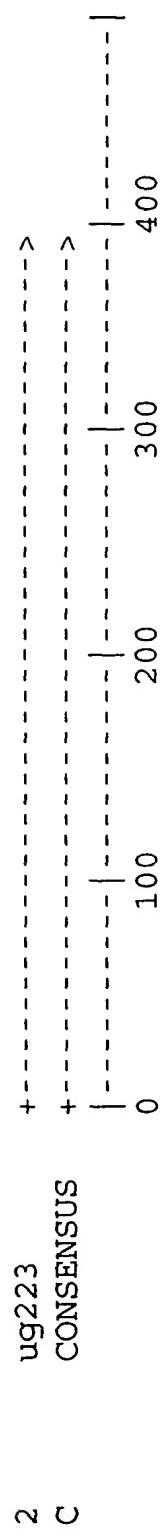
Fig. 8 - 61 of 180

329/472

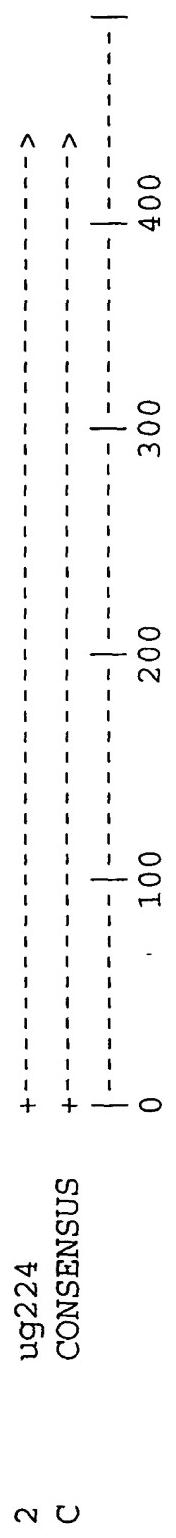
Contig: ug220



Contig: ug223



Contig: ug224



Contig: ug225

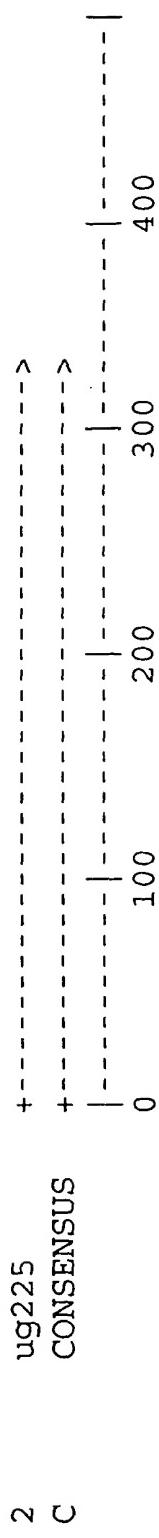
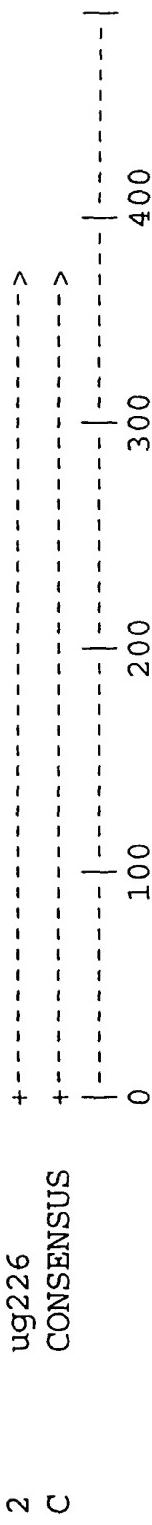


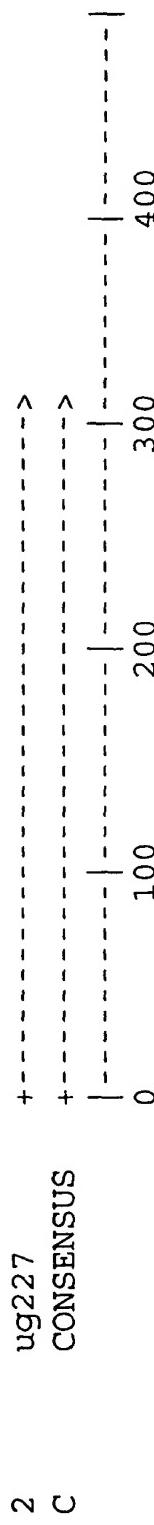
Fig. 8 - 62 of 180

330/472

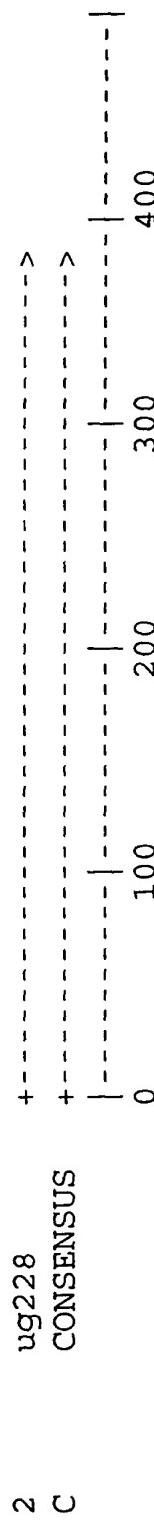
Contig: ug226



Contig: ug227



Contig: ug228



Contig: ug229

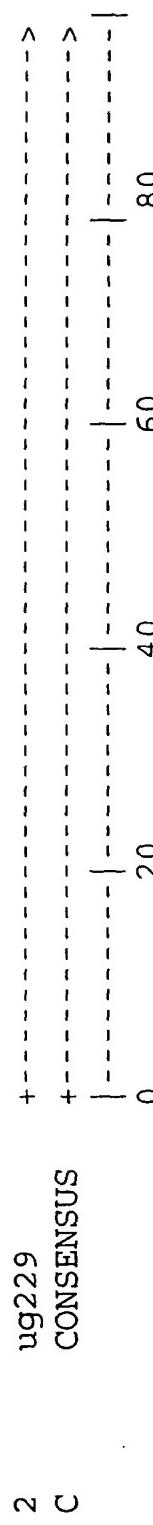
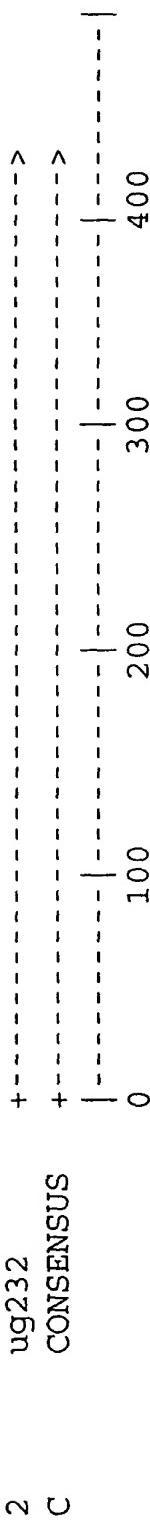


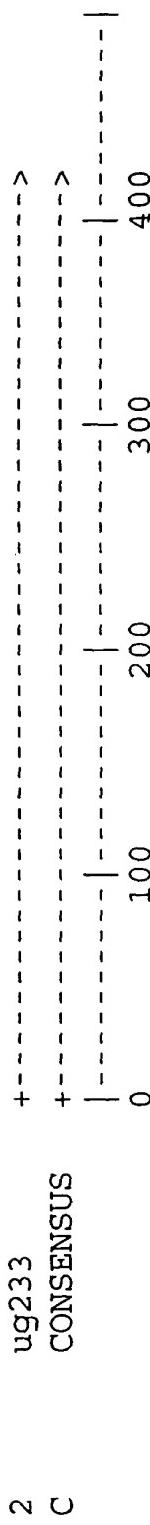
Fig. 8 - 63 of 180

331/472

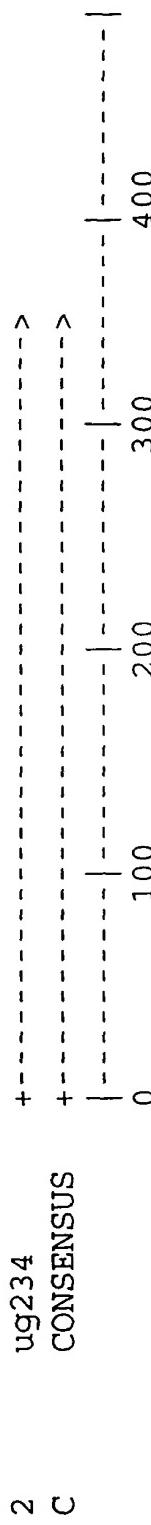
Contig: ug232



Contig: ug233



Contig: ug234



Contig: ug237

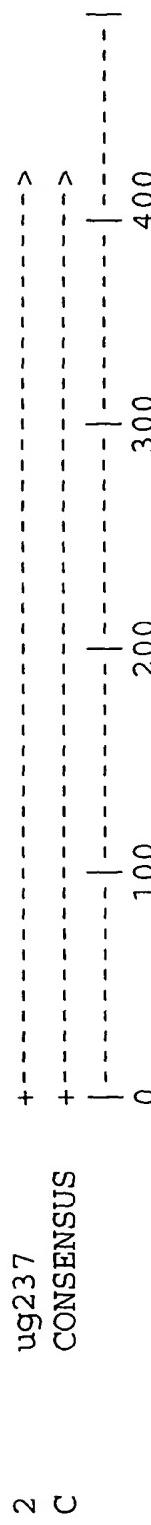
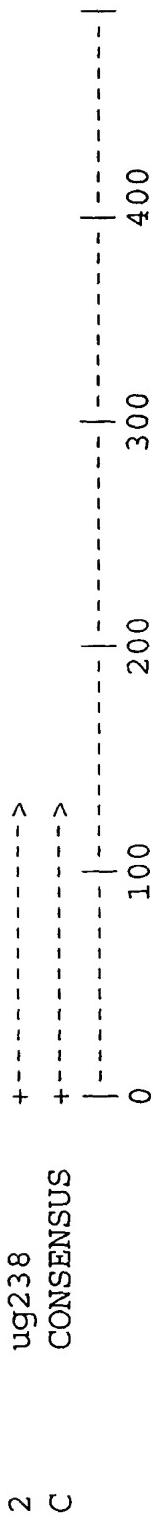


Fig. 8 - 64 of 180

332/472

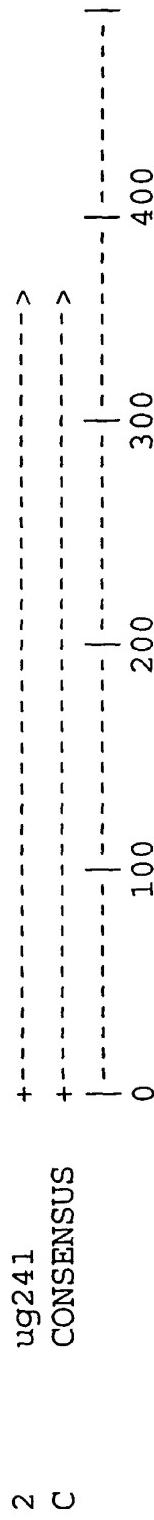
Contig: ug238



Contig: ug240



Contig: ug241



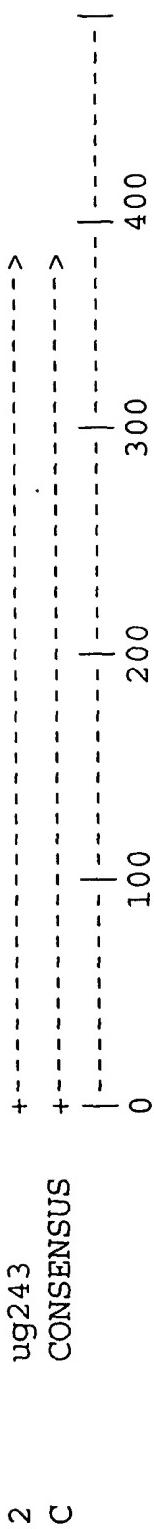
Contig: ug242



Fig. 8 - 65 of 180

333/472

Contig: ug243



Contig: ug244



Contig: ug245



Contig: ug246

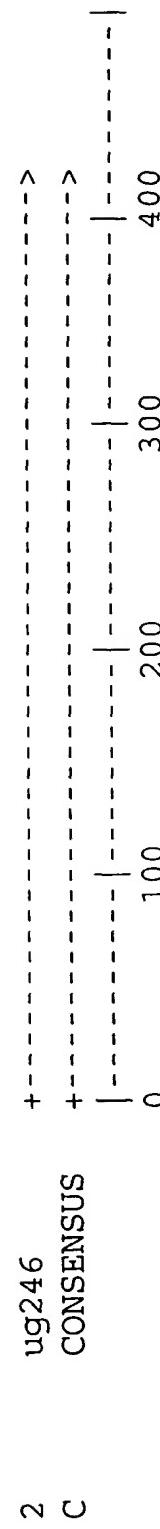


Fig. 8 - 66 of 180

334/472

Contig: ug247



Contig: ug248



Contig: ug249



Contig: ug250



Fig. 8 - 67 of 180

335/472

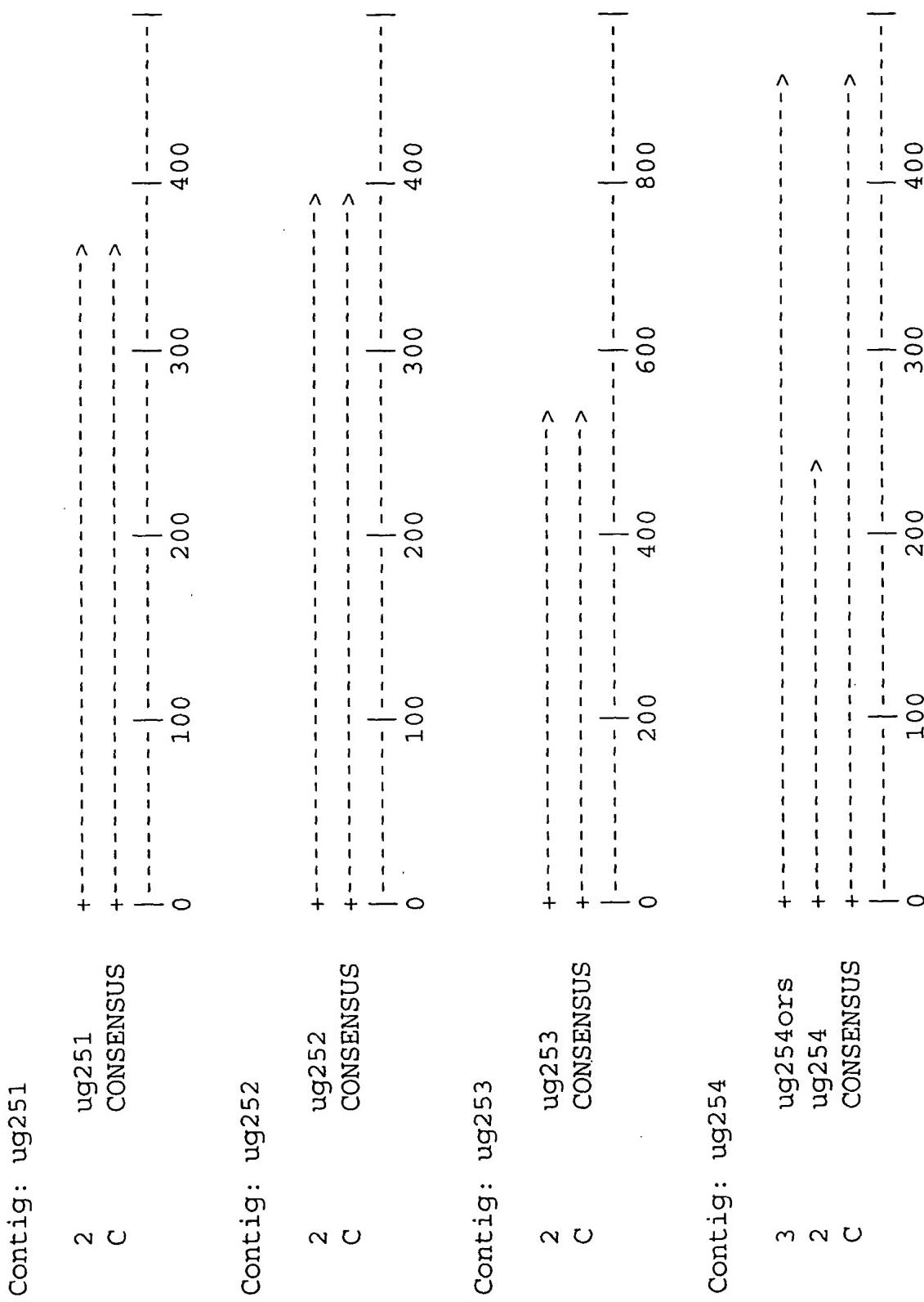


Fig. 8 - 68 of 180

336/472

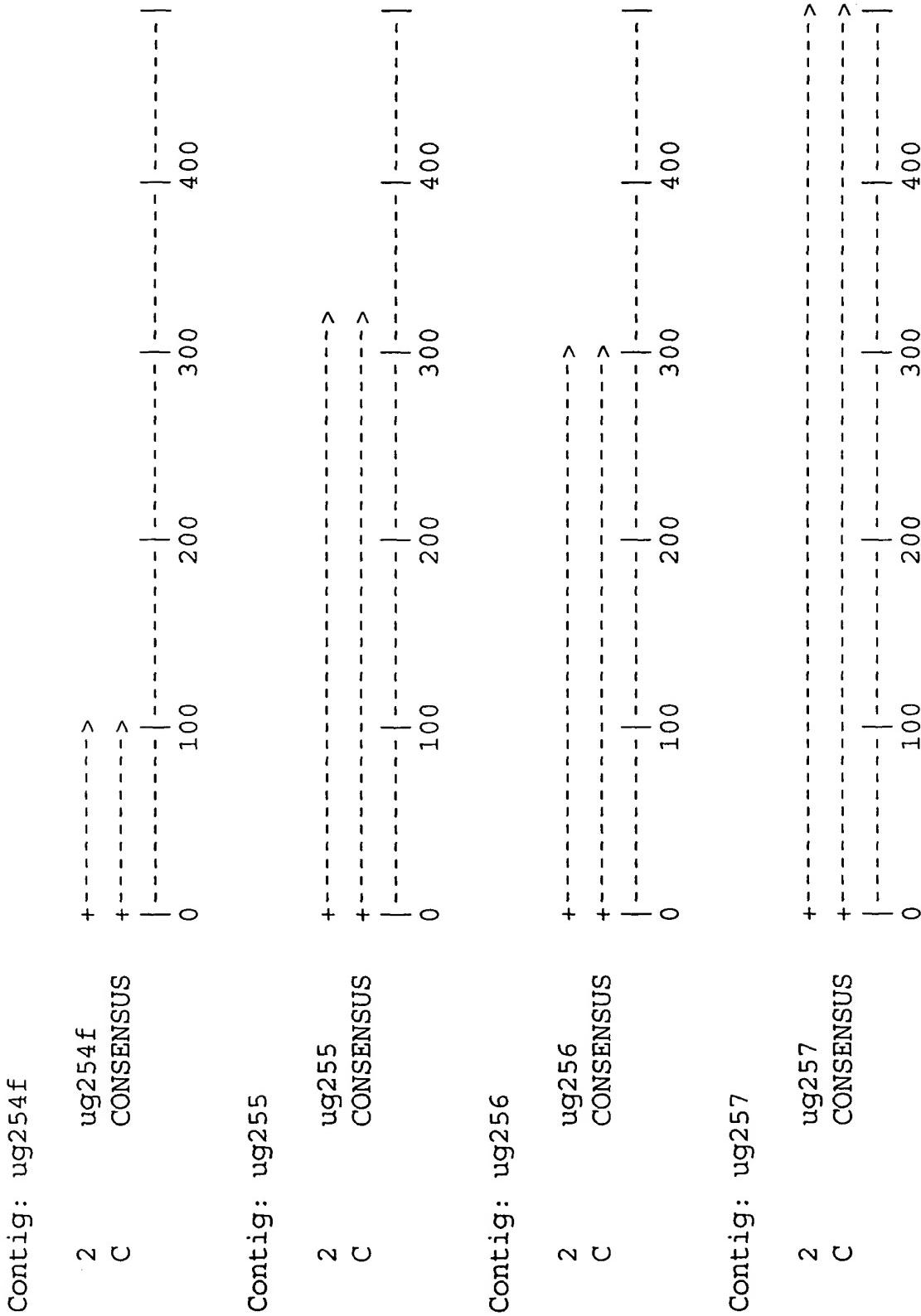


Fig. 8 - 69 of 180

337/472

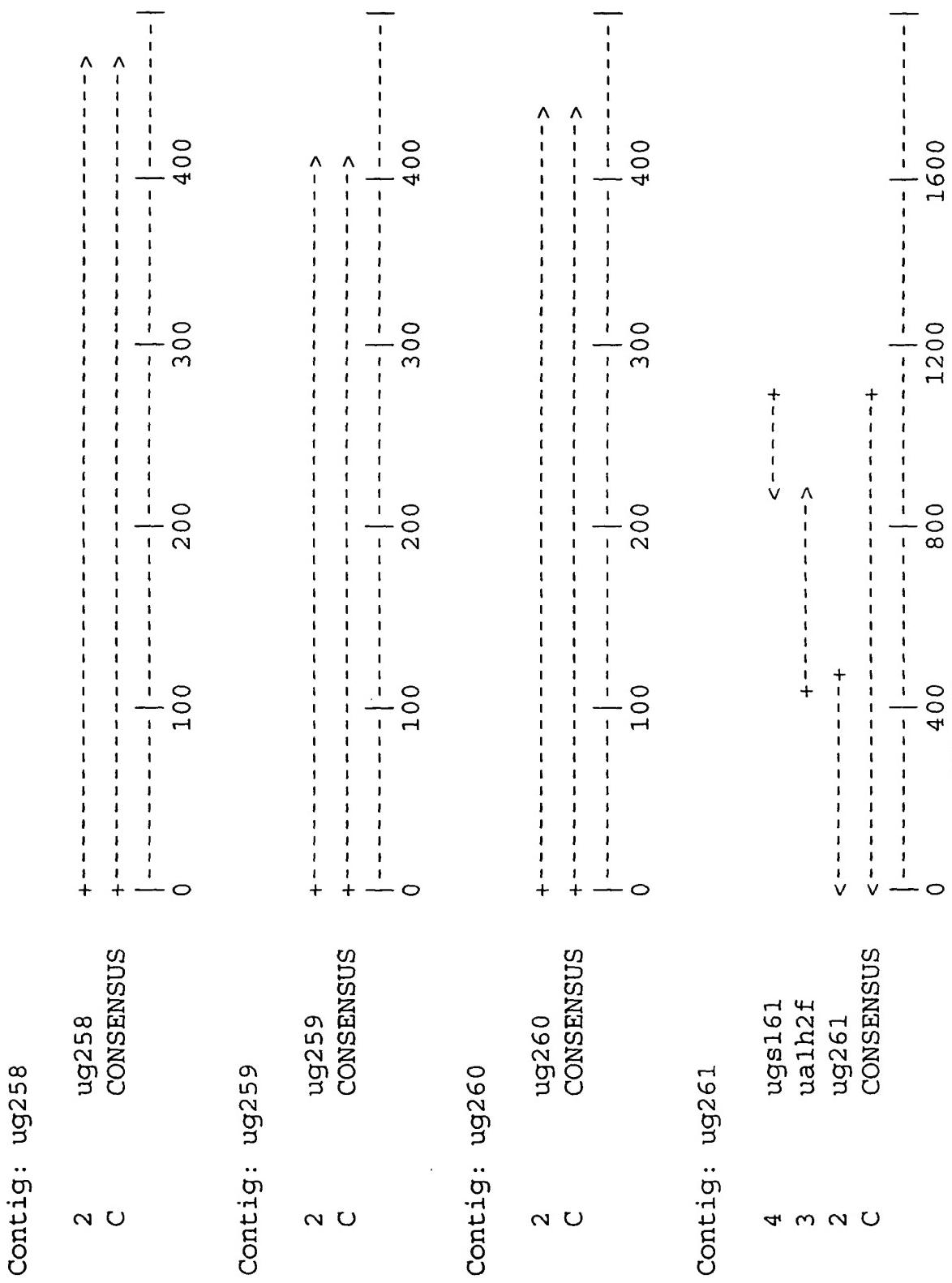


Fig. 8 - 70 of 180

338/472

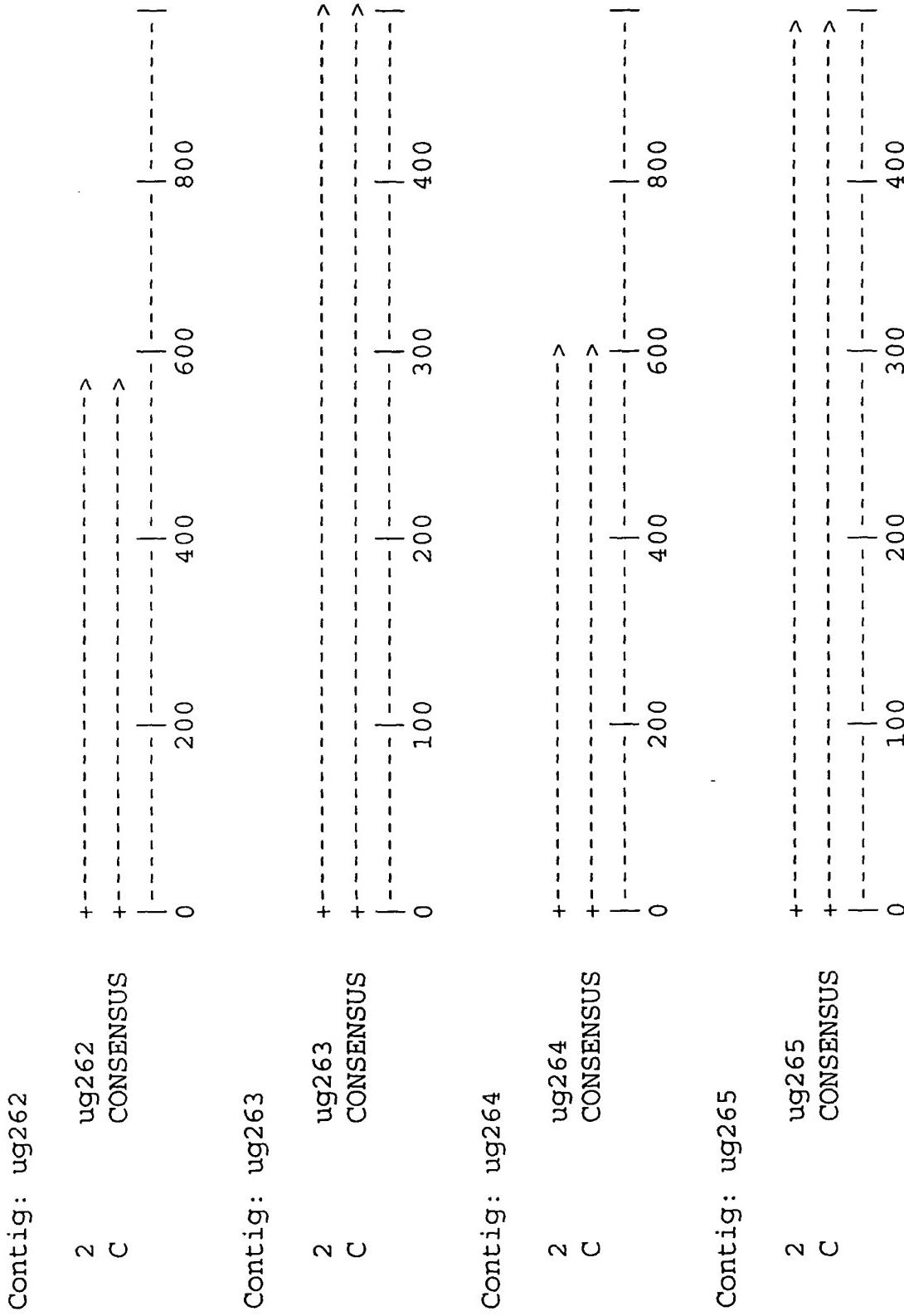


Fig. 8 - 71 of 180

339/472

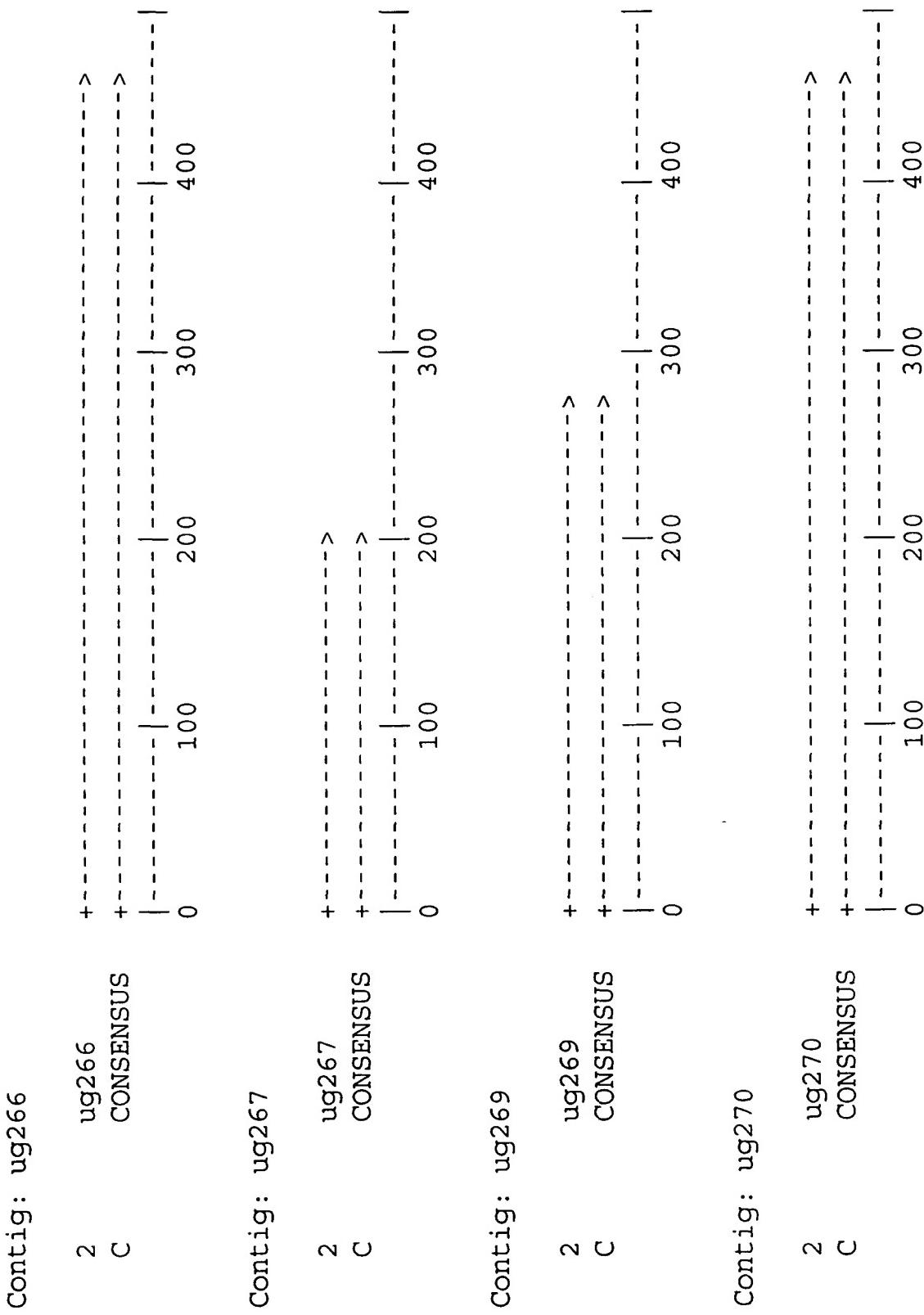


Fig. 8 - 72 of 180

340/472

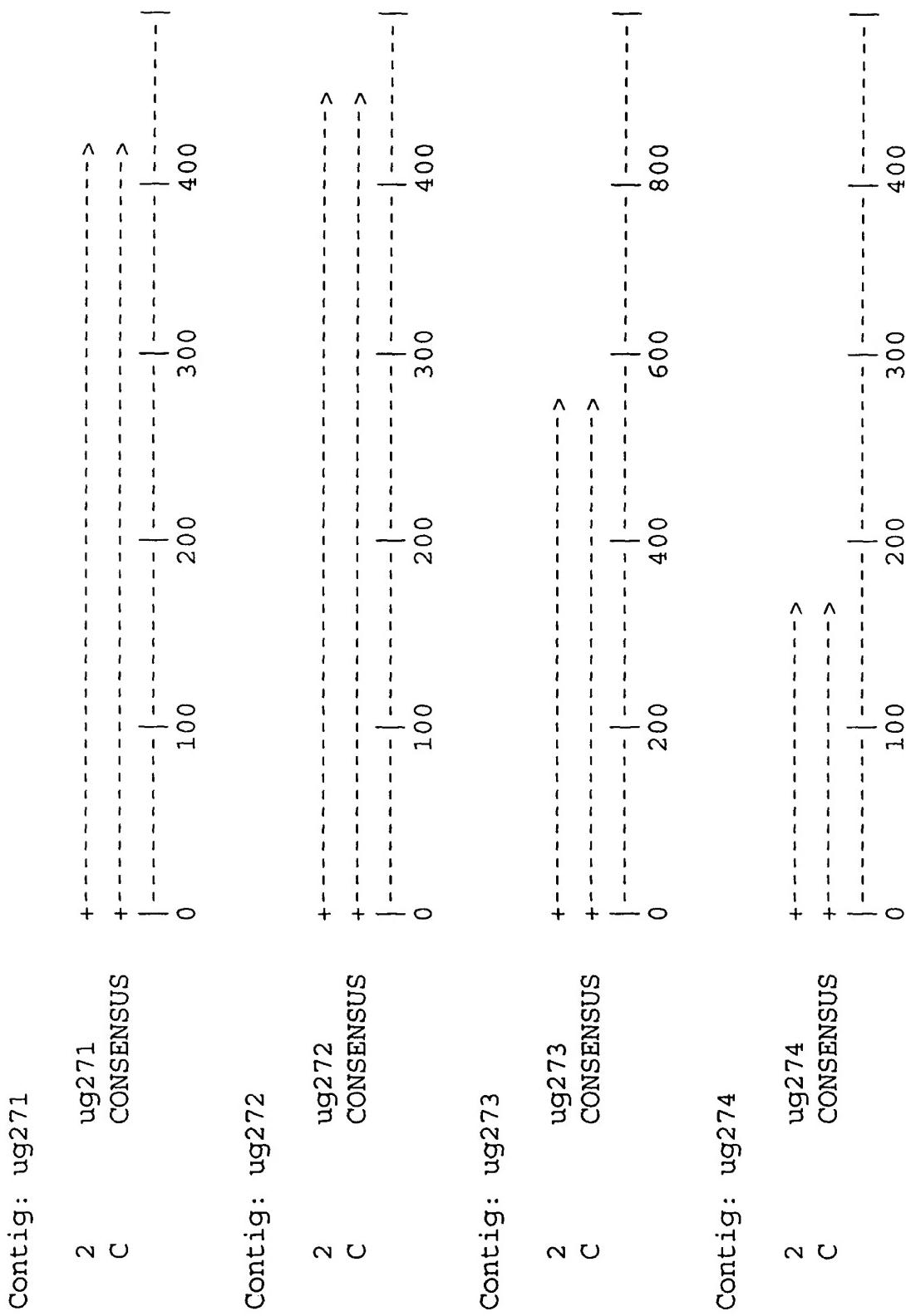
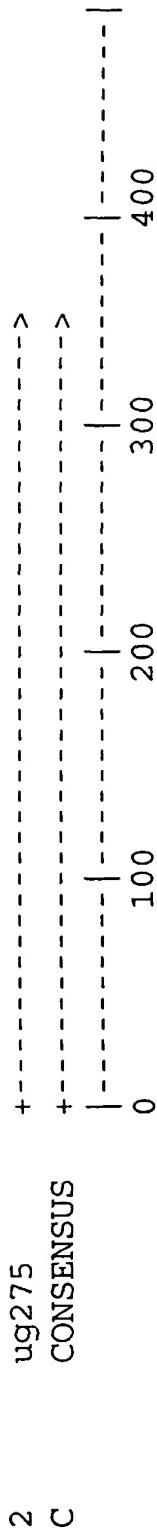


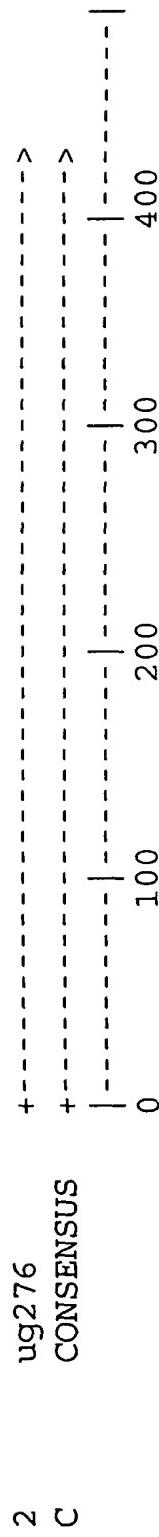
Fig. 8 - 73 of 180

341/472

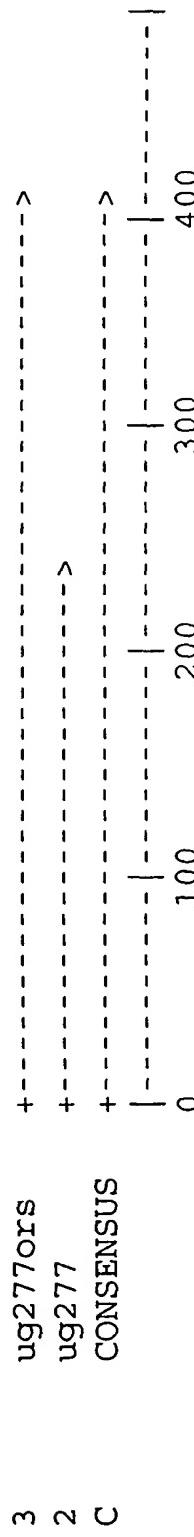
Contig: ug275



Contig: ug276



Contig: ug277



Contig: ug277f

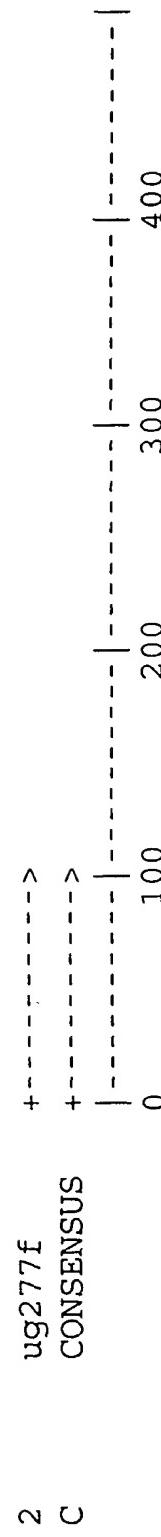


Fig. 8 - 74 of 180

342/472

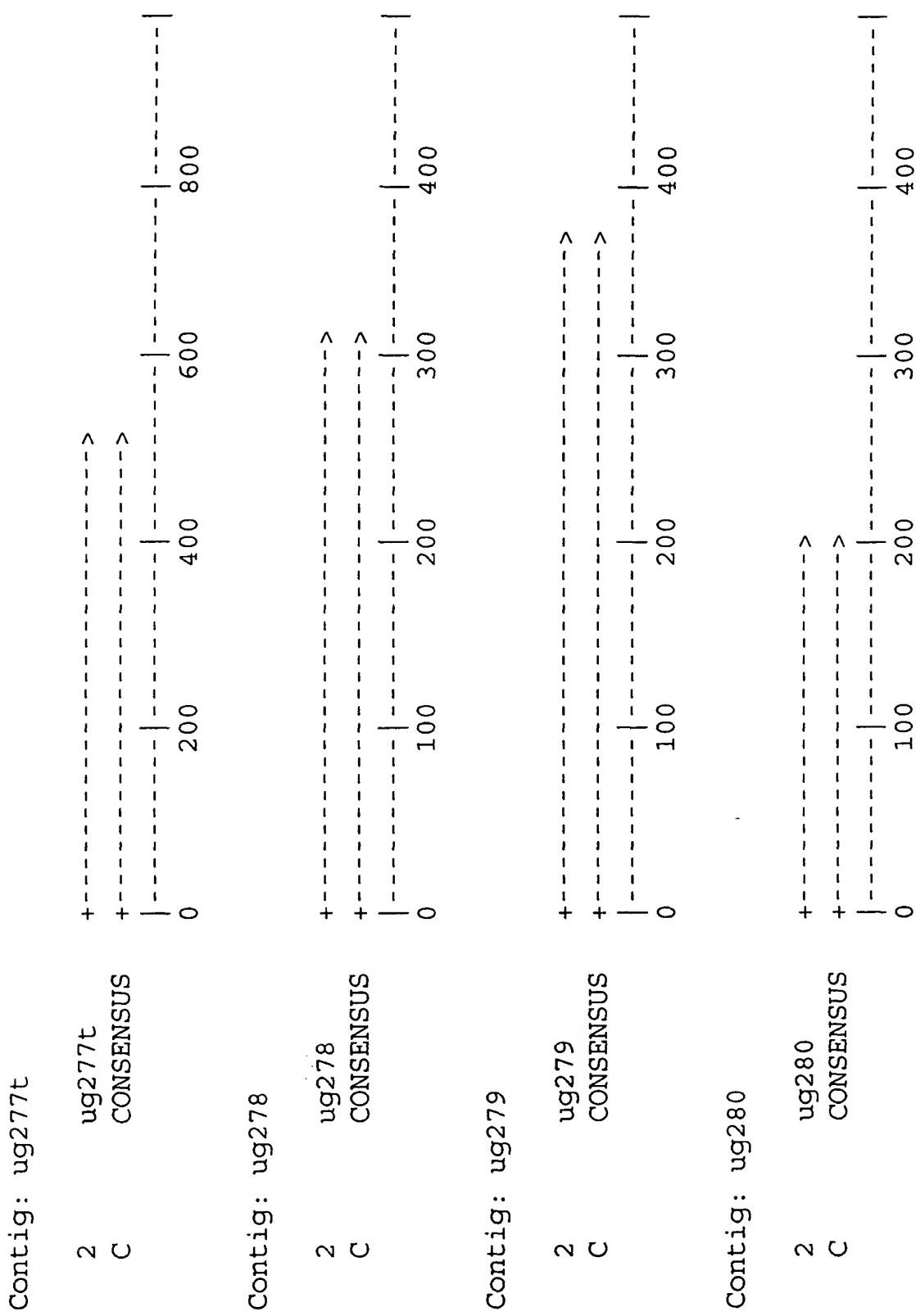


Fig. 8 - 75 of 180

343/472

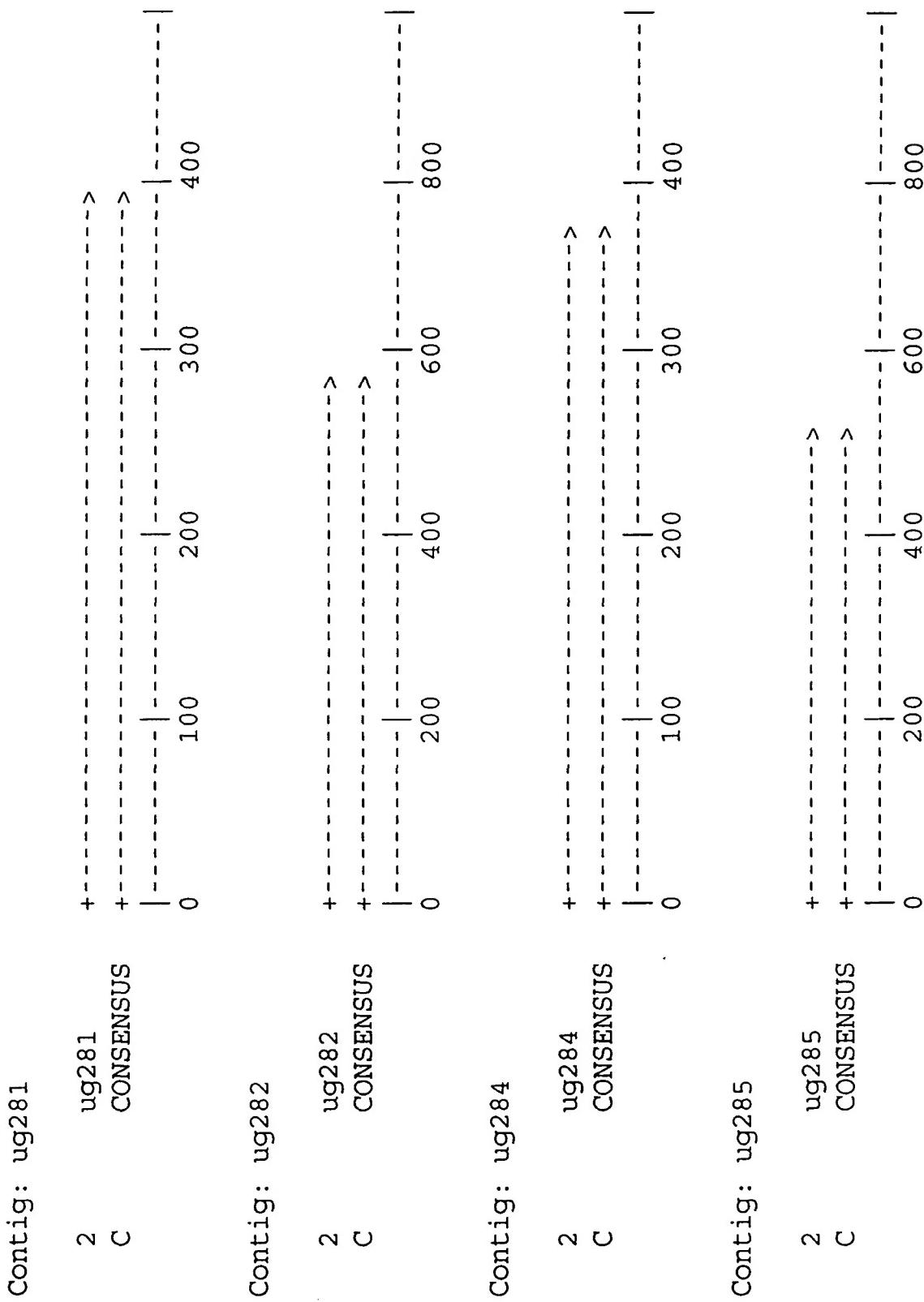


Fig. 8 - 76 of 180

344/472

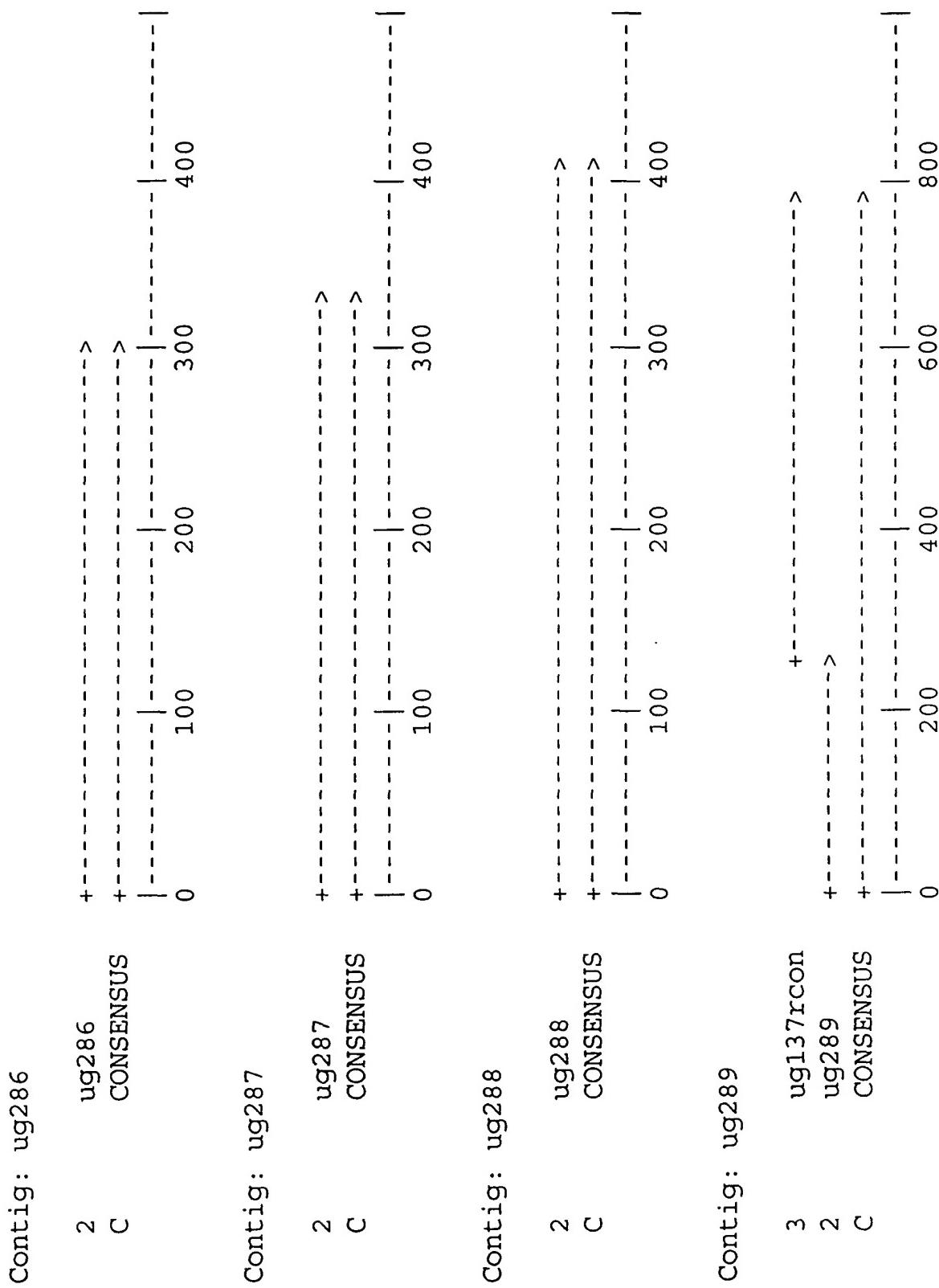


Fig. 8 - 77 of 180

345/472

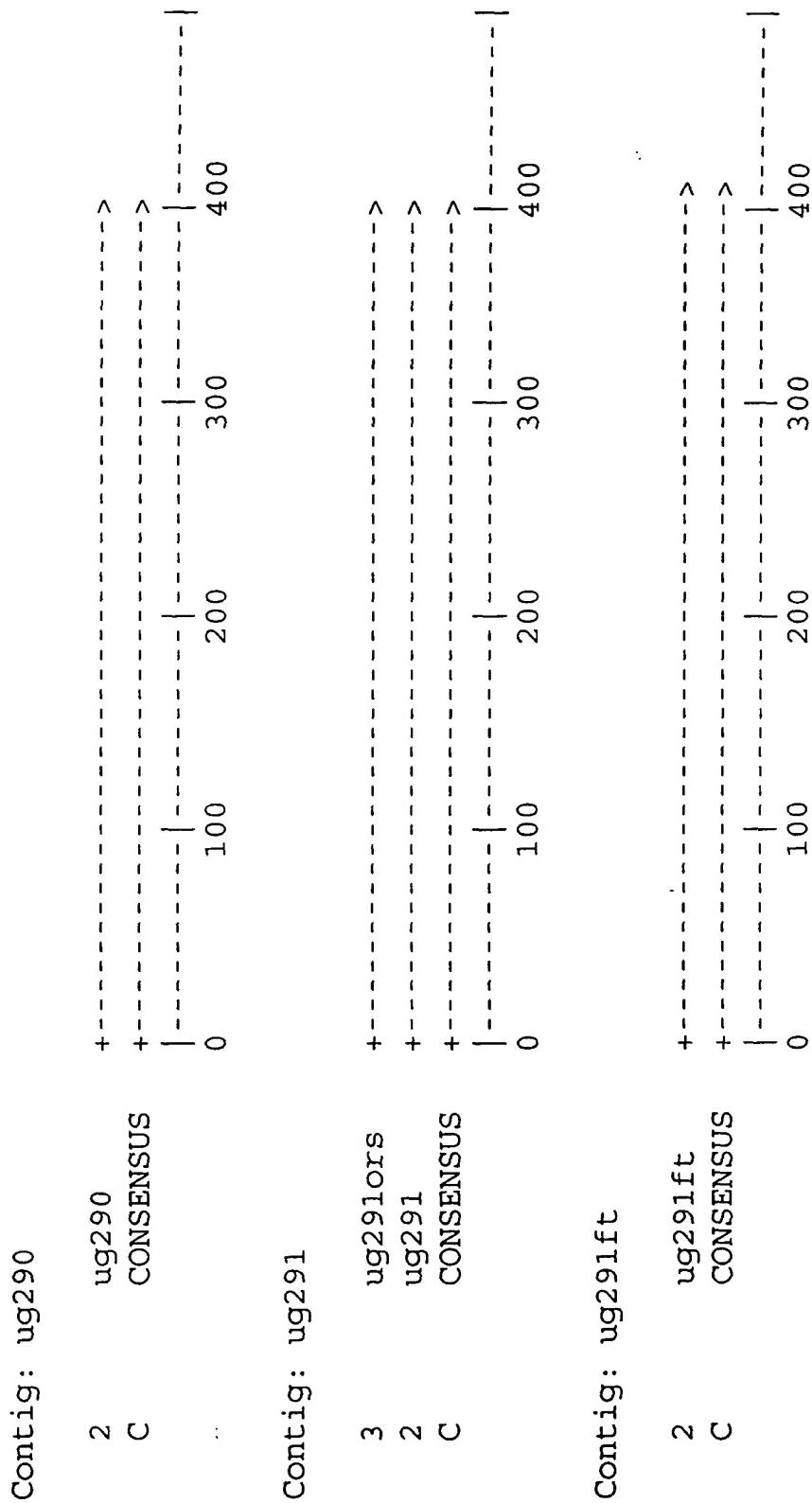
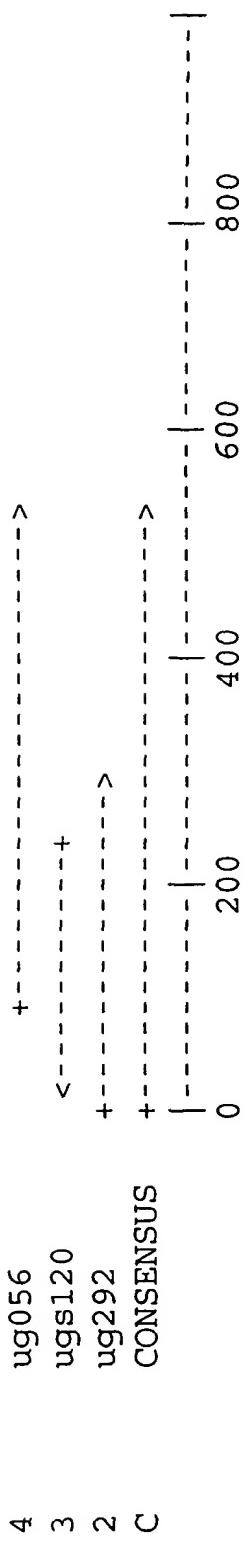


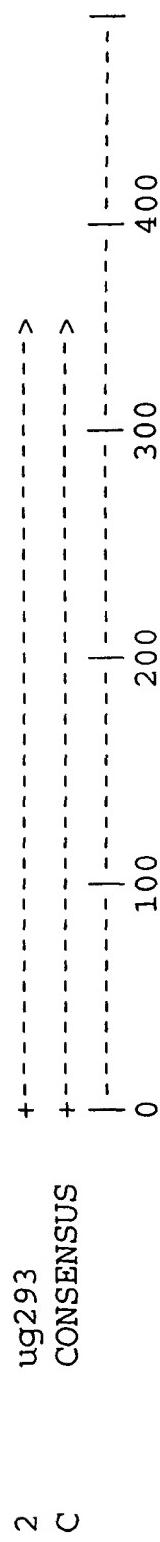
Fig. 8 - 78 of 180

346/472

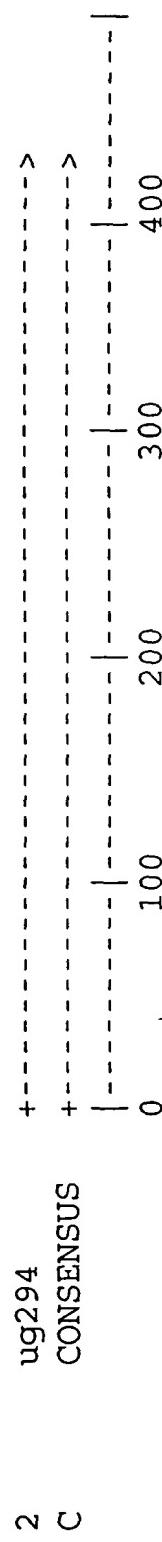
Contig: ug292



Contig: ug293



Contig: ug294



Contig: ug295

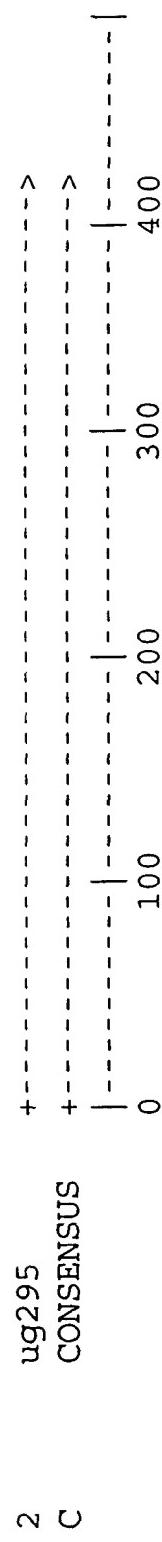
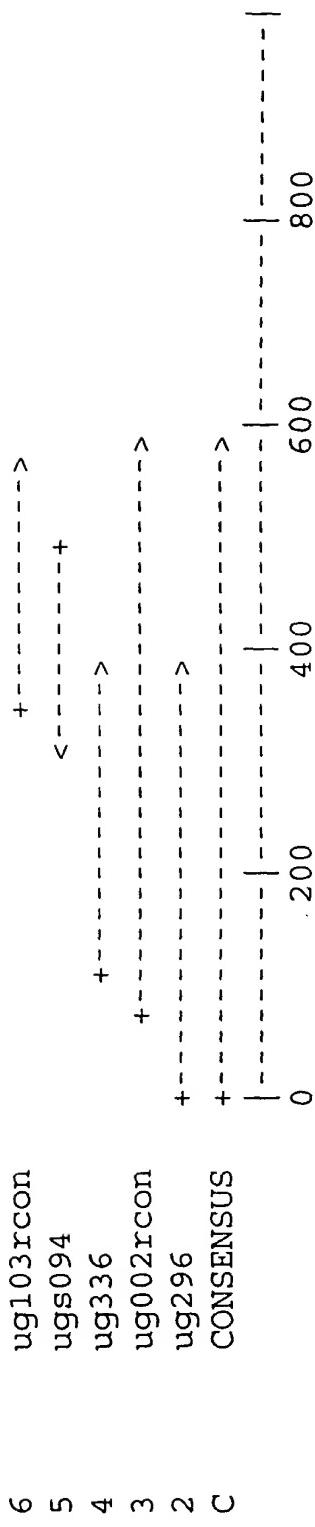


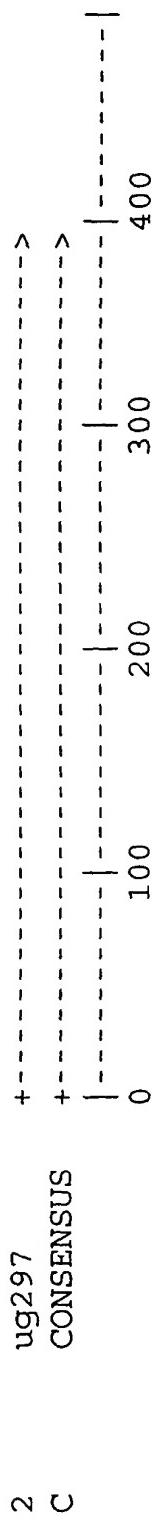
Fig. 8 - 79 of 180

347/472

Contig: ug296



Contig: ug297



Contig: ug298

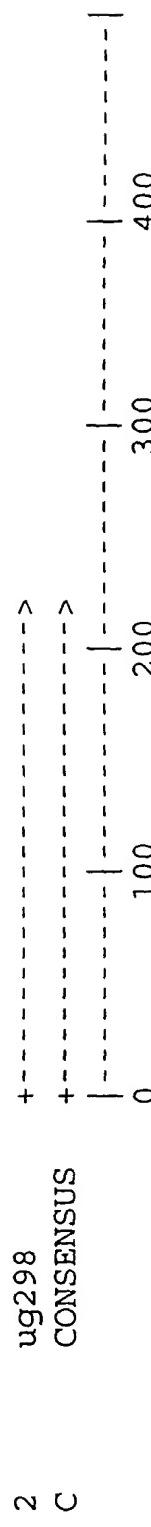
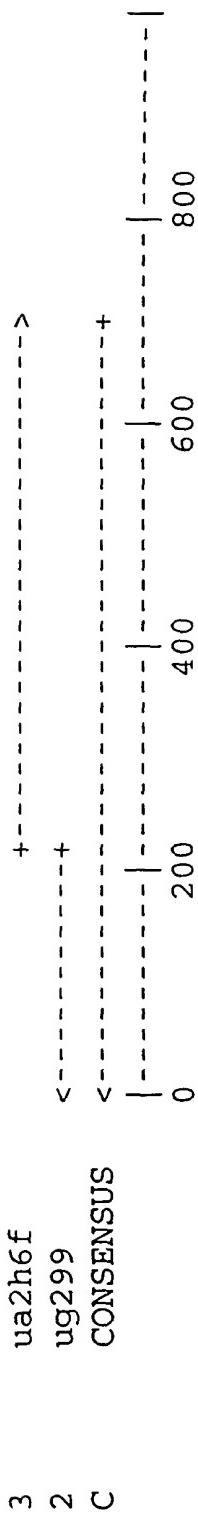


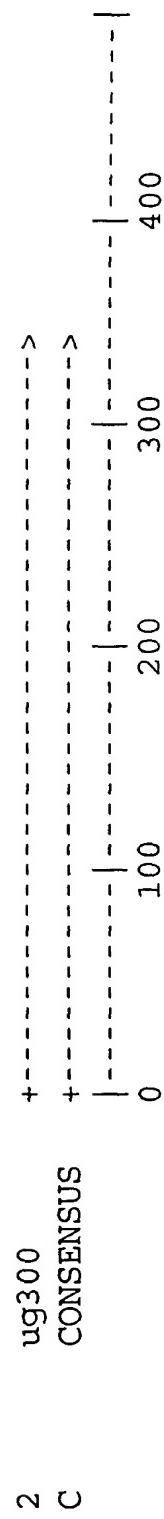
Fig. 8 - 80 of 180

348/472

Contig: ug299



Contig: ug300



Contig: ug301



Contig: ug303

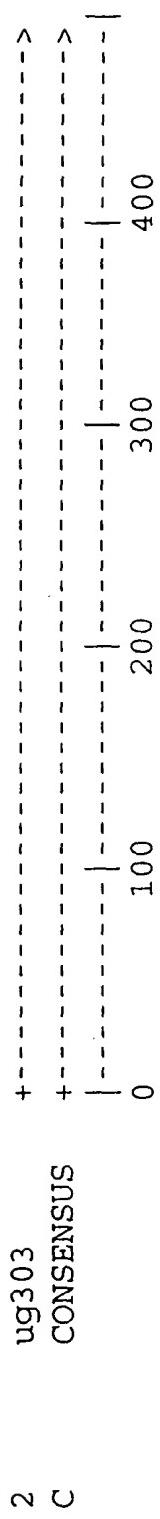
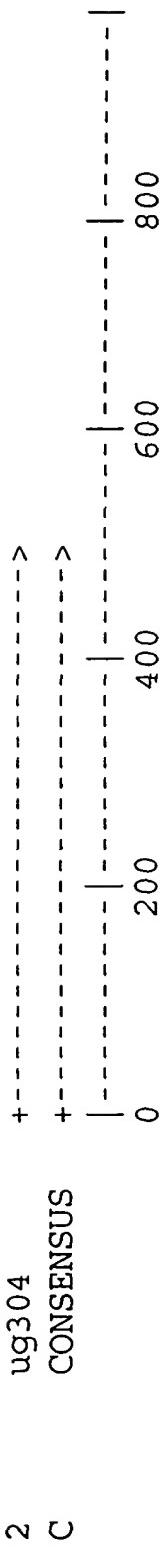


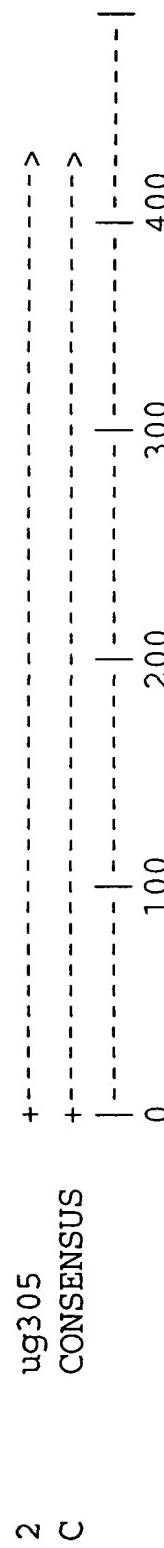
Fig. 8 - 81 of 180

349/472

Contig: ug304



Contig: ug305



Contig: ug306

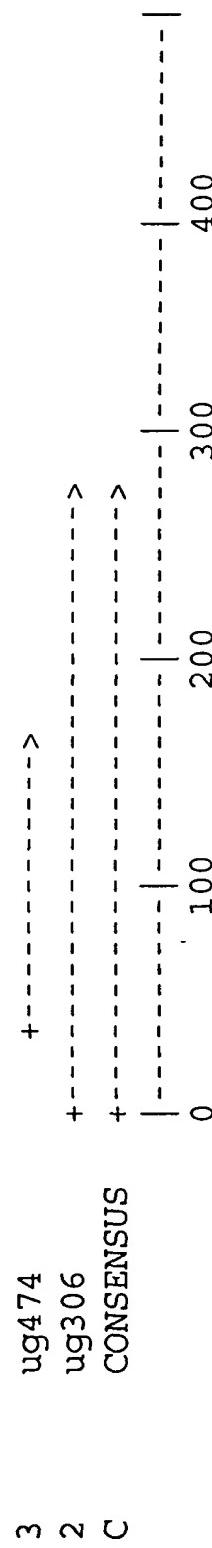
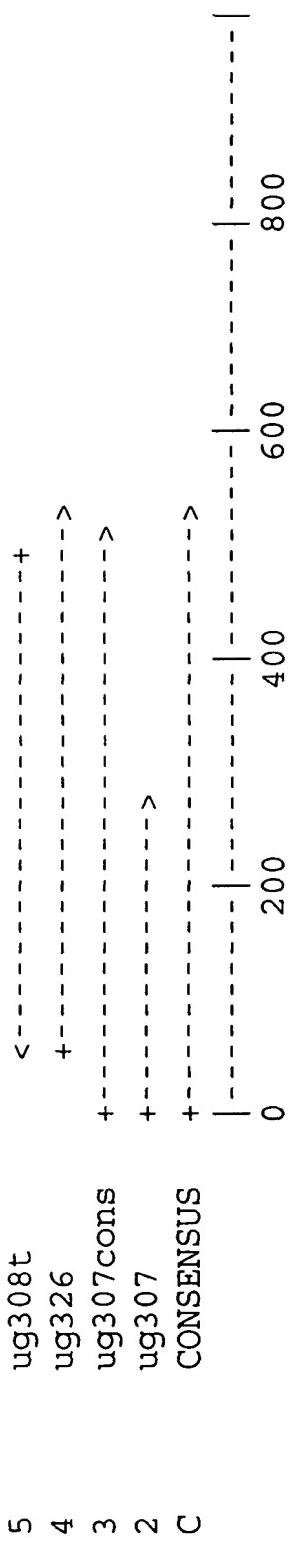


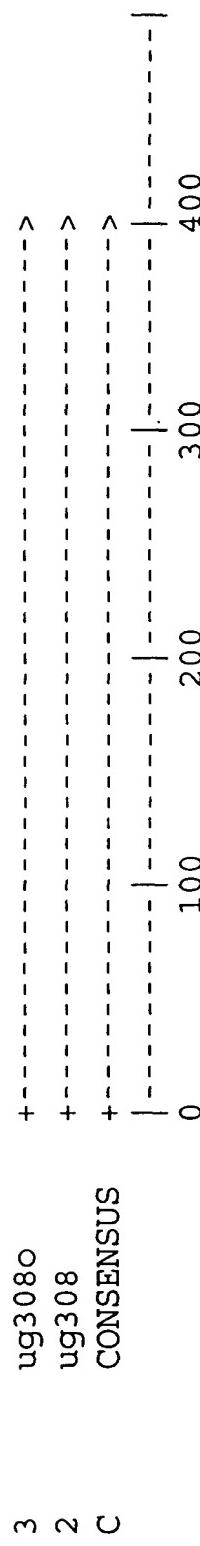
Fig. 8 - 82 of 180

350/472

Contig: ug307



Contig: ug308



Contig: ug308f

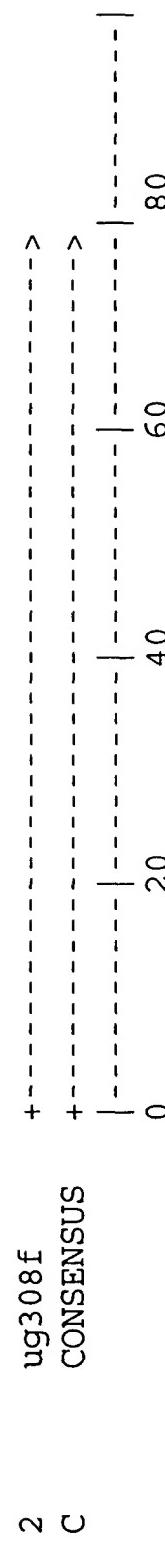


Fig. 8 - 83 of 180

351/472

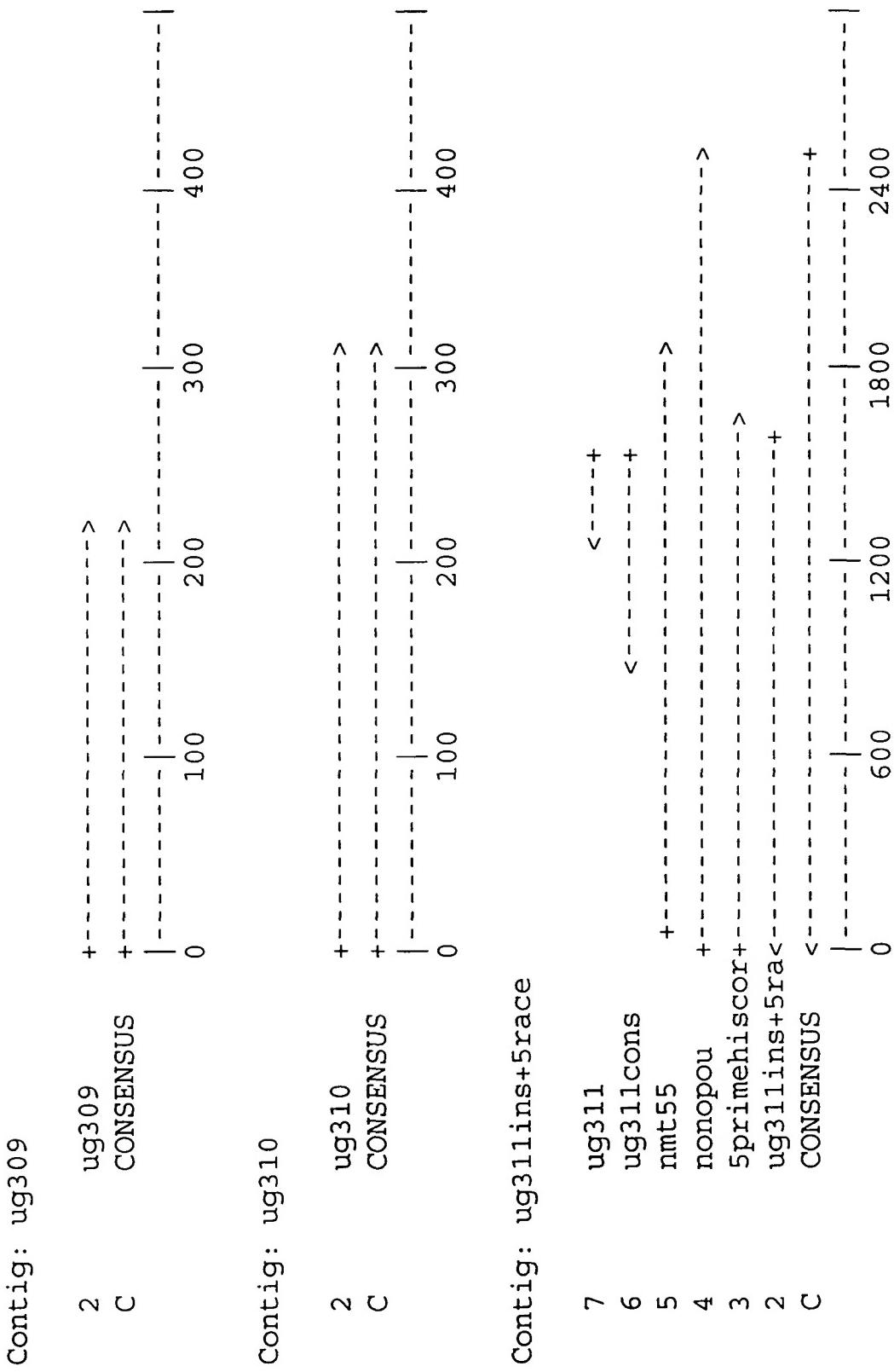


Fig. 8 - 84 of 180

352/472

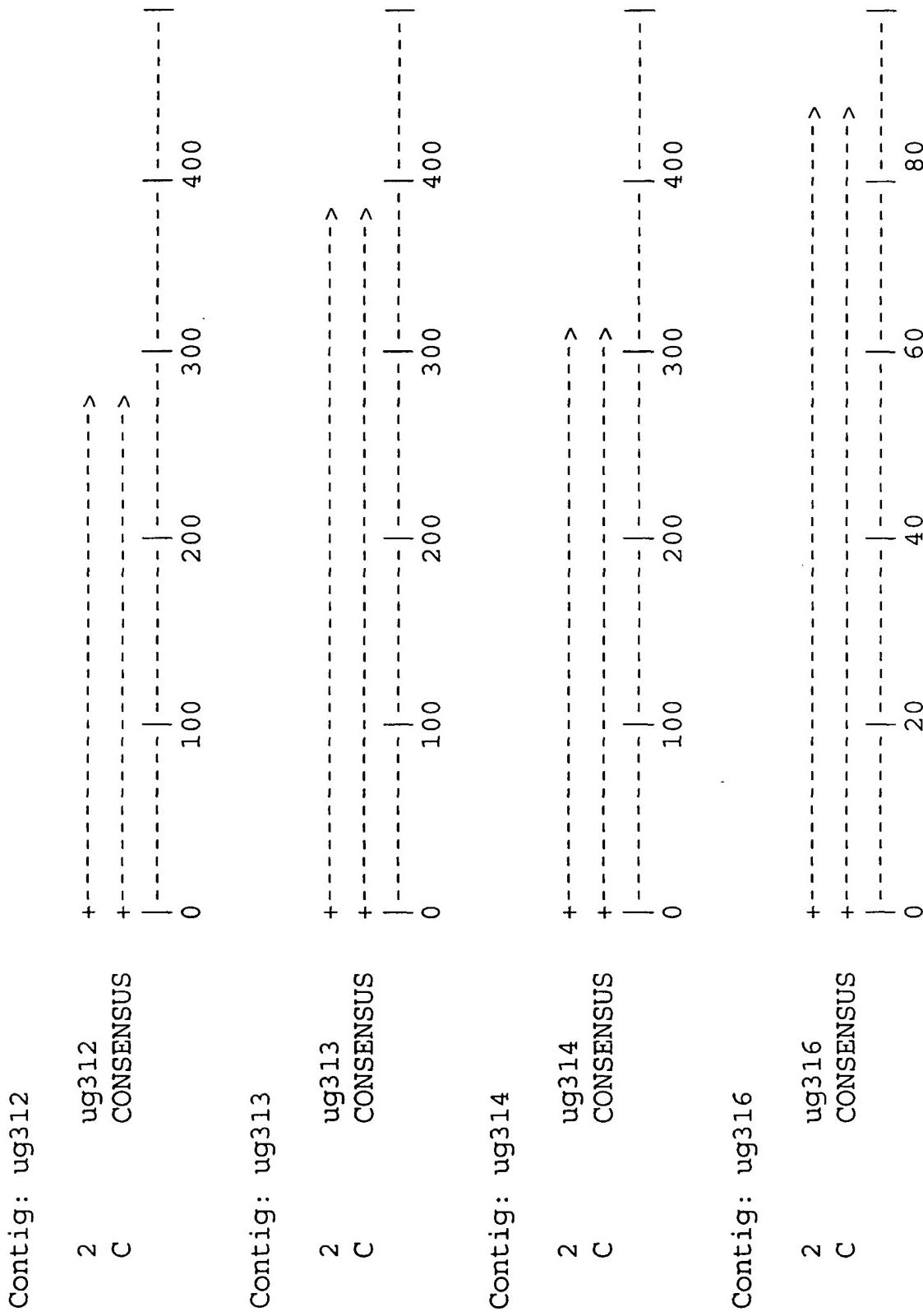
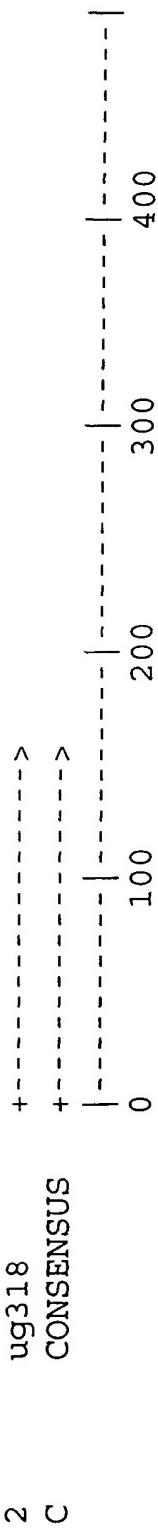


Fig. 8 - 85 of 180

353/472

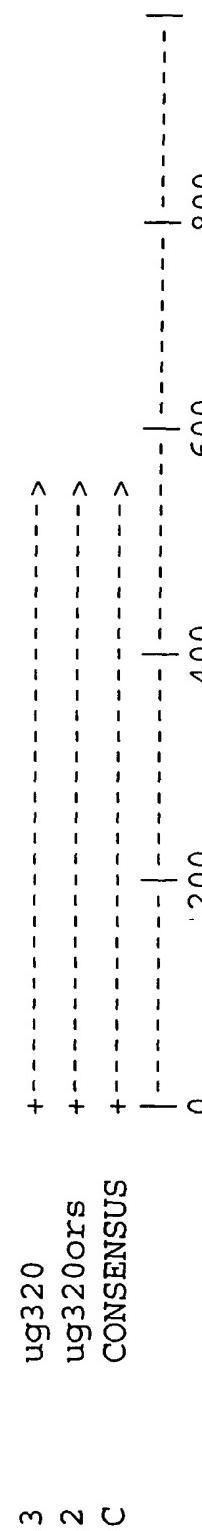
Contig: ug318



Contig: ug320ft



Contig: ug320ors



Contig: ug321

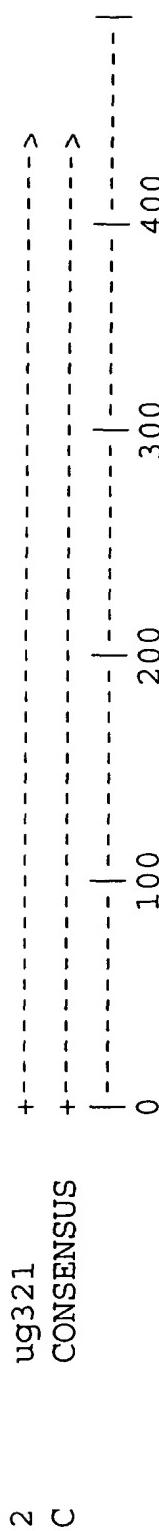


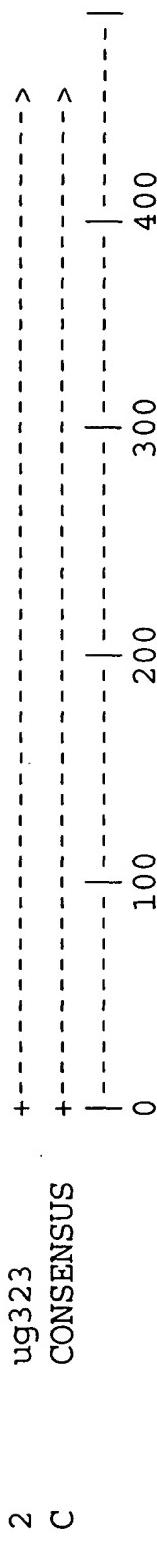
Fig. 8 - 86 of 180

354/472

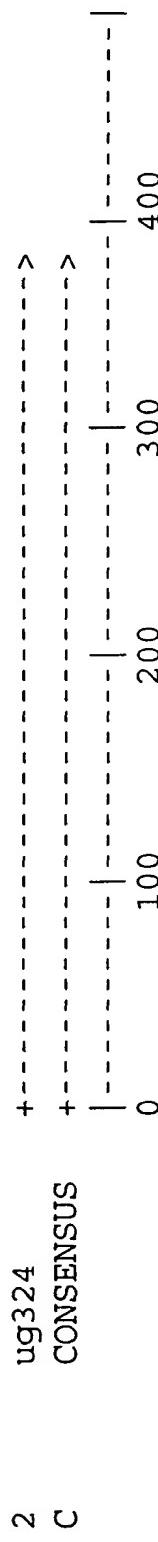
Contig: ug322



Contig: ug323



Contig: ug324



Contig: ug325

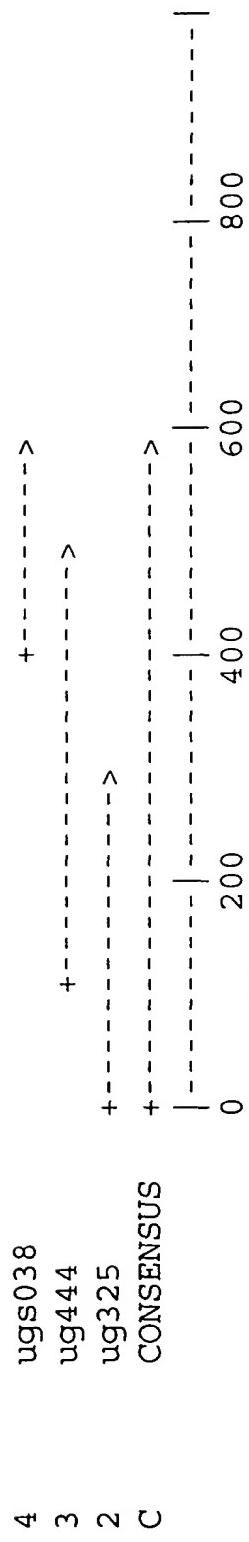


Fig. 8 - 87 of 180

355/472

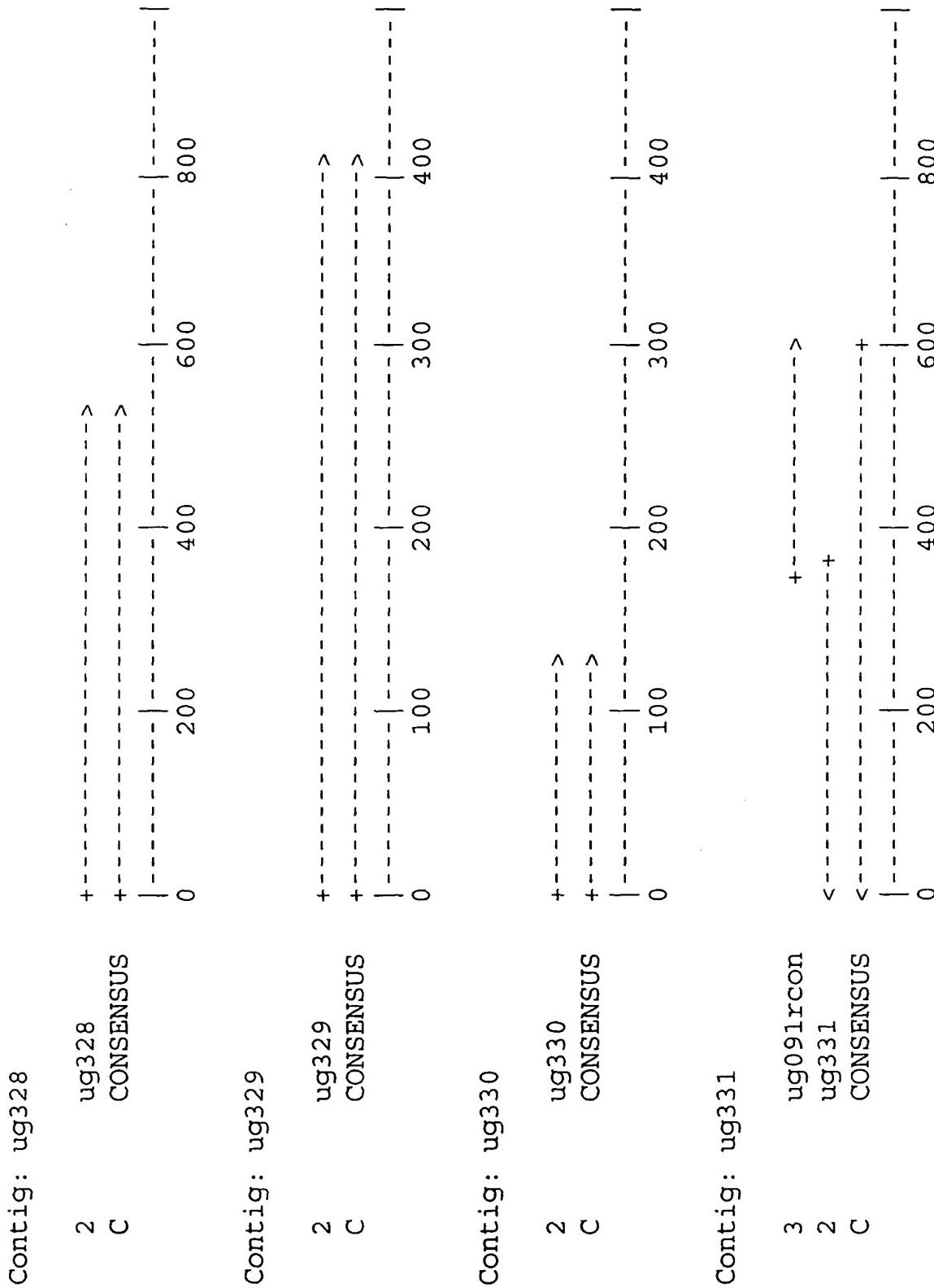


Fig. 8 - 88 of 180

356/472

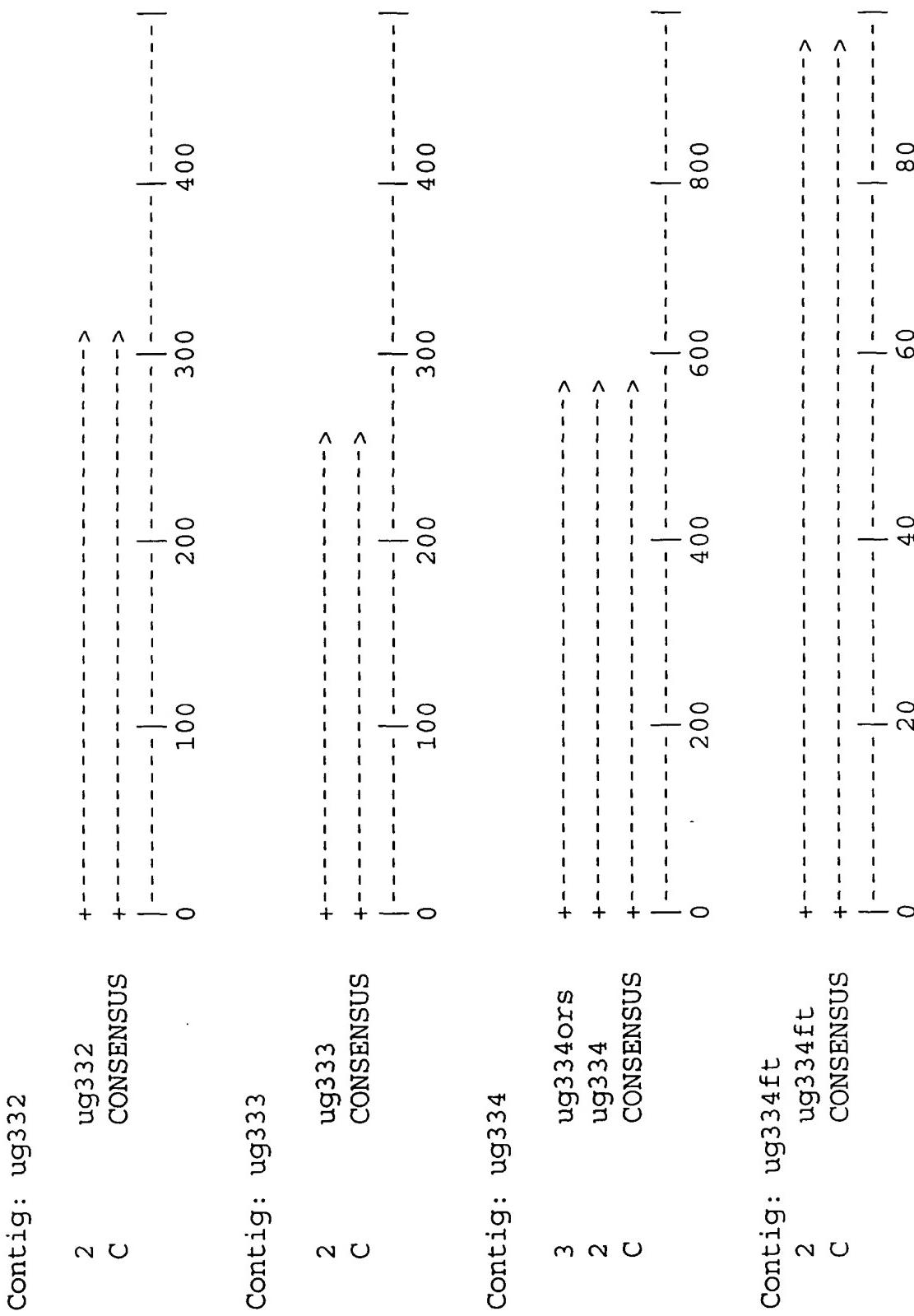


Fig. 8 - 89 of 180

357/472

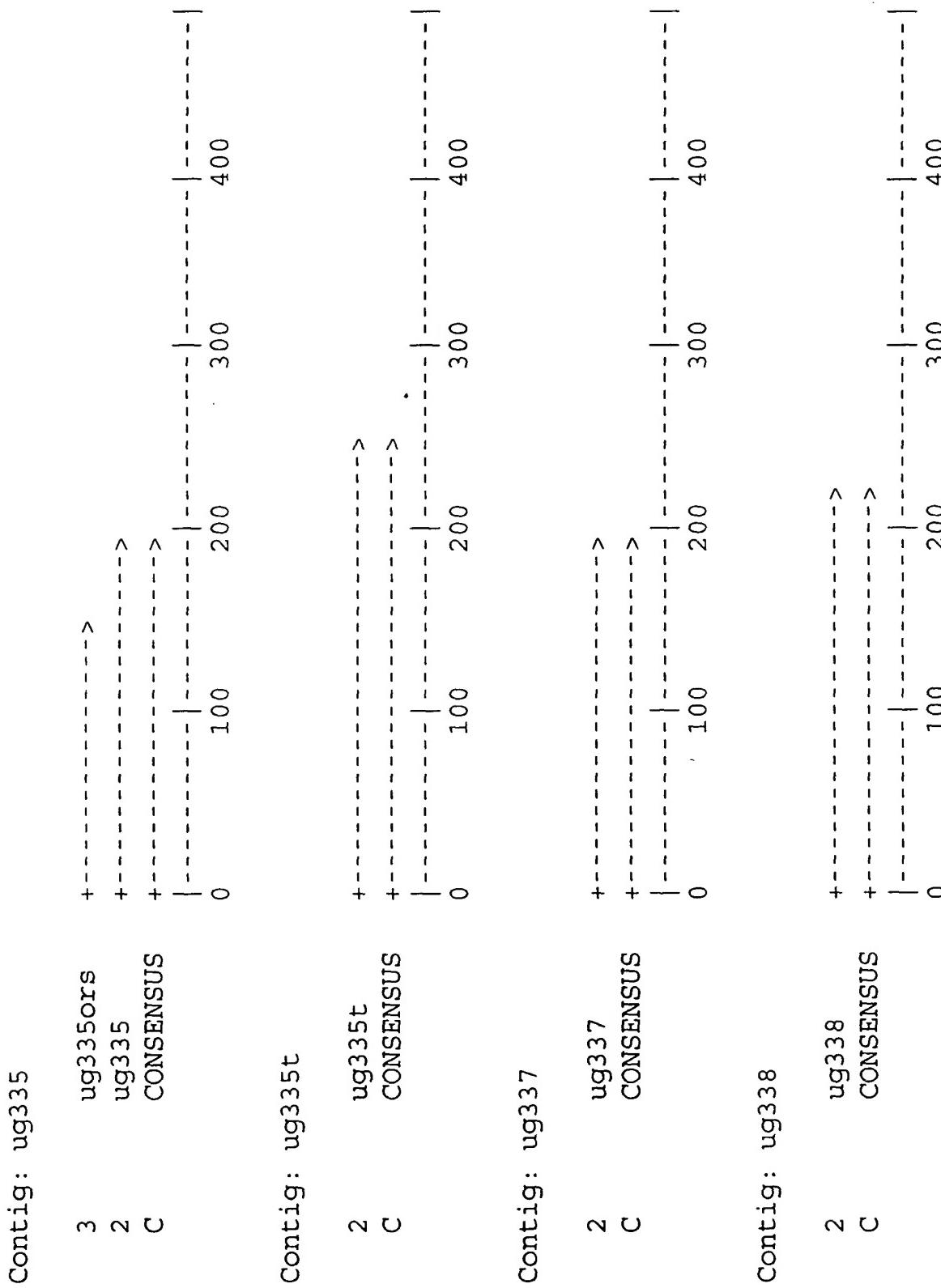


Fig. 8 - 90 of 180

358/472

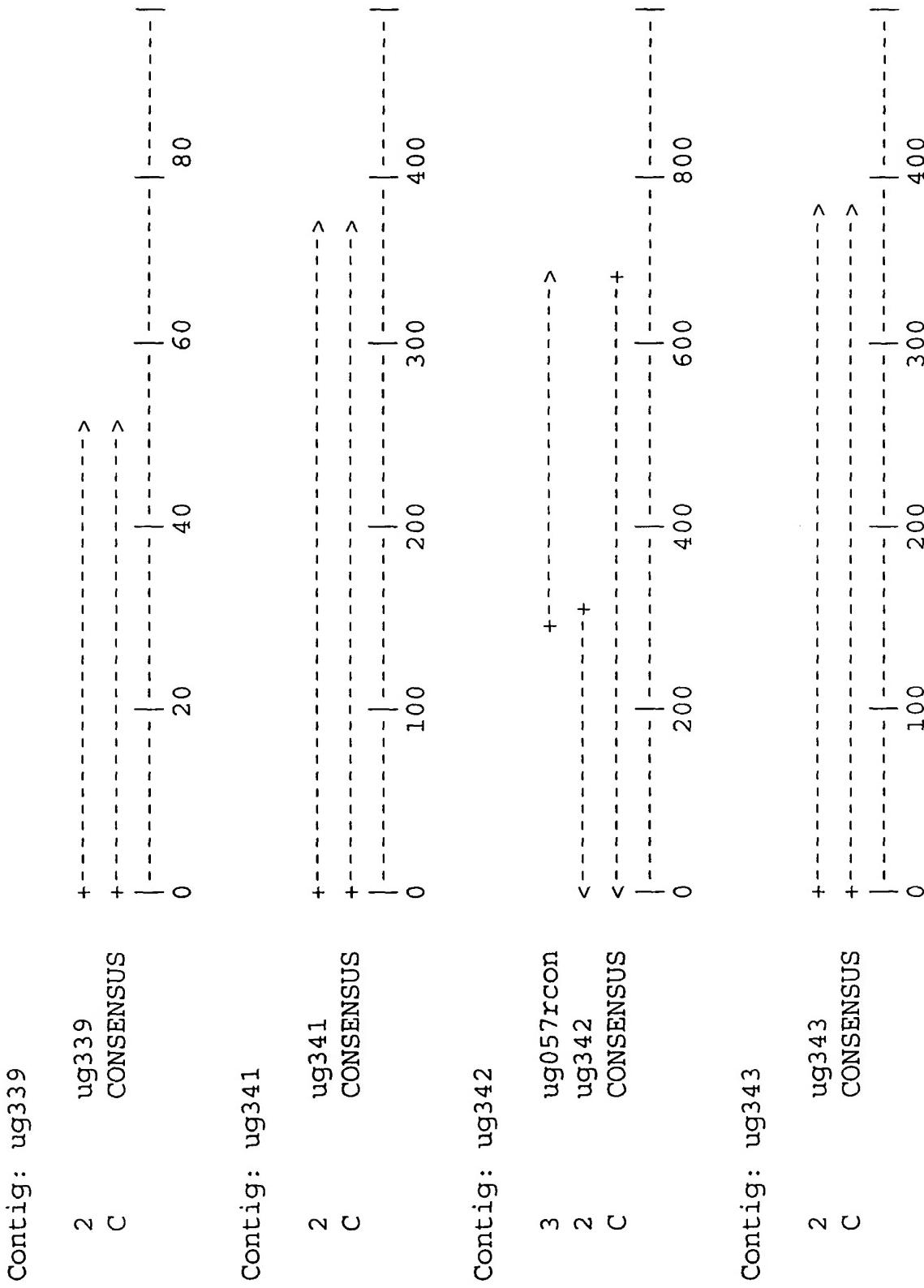
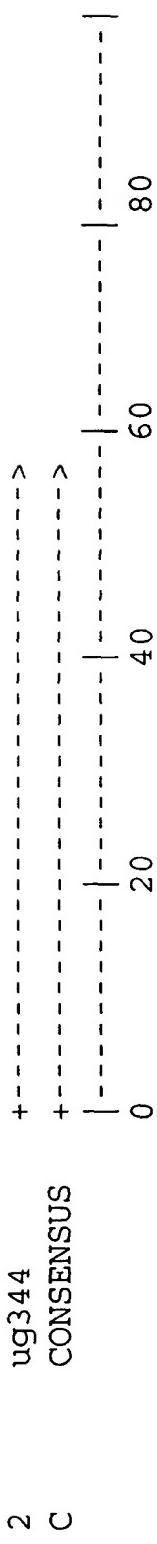


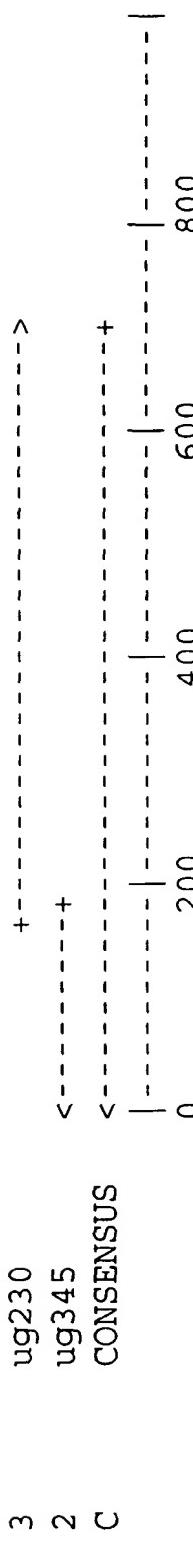
Fig. 8 - 91 of 180

359/472

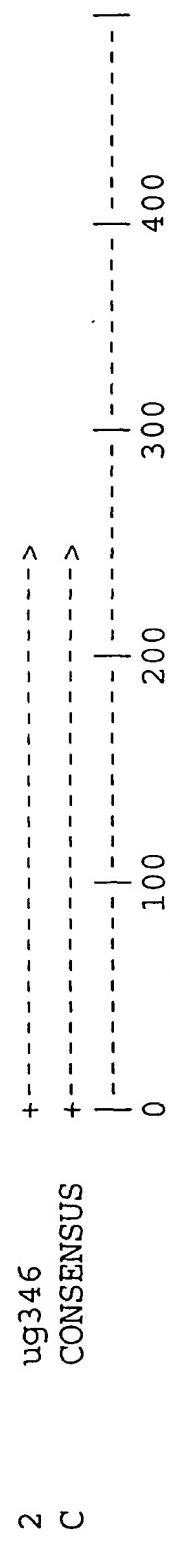
Contig: ug344



Contig: ug345



Contig: ug346



Contig: ug347

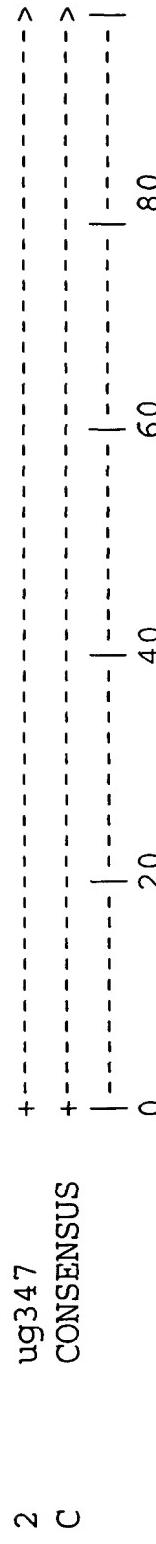
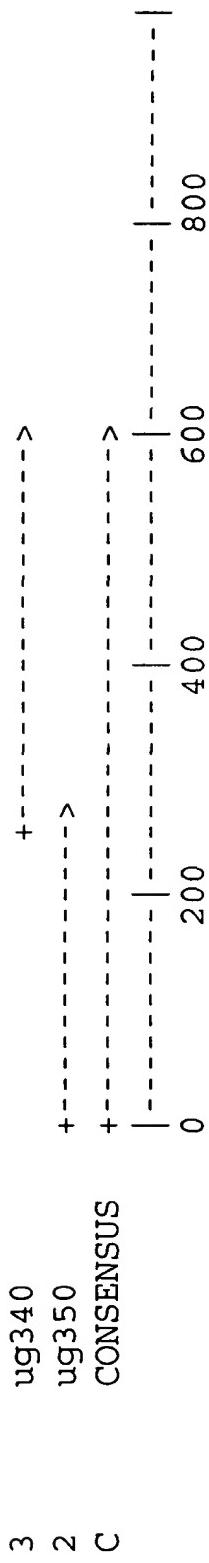


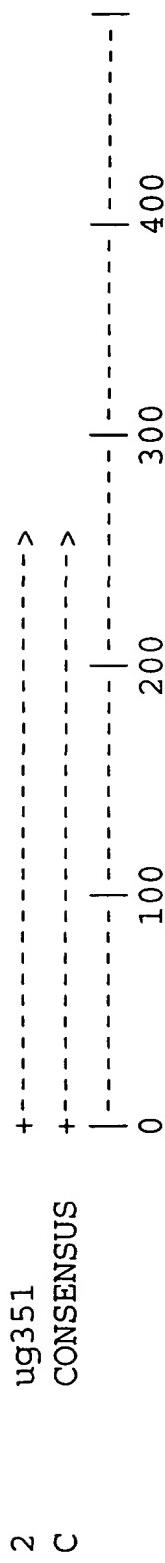
Fig. 8 - 92 of 180

360/472

Contig: ug350



Contig: ug351



Contig: ug352

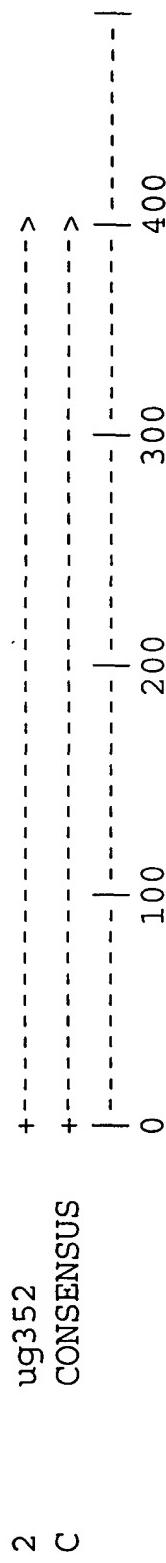
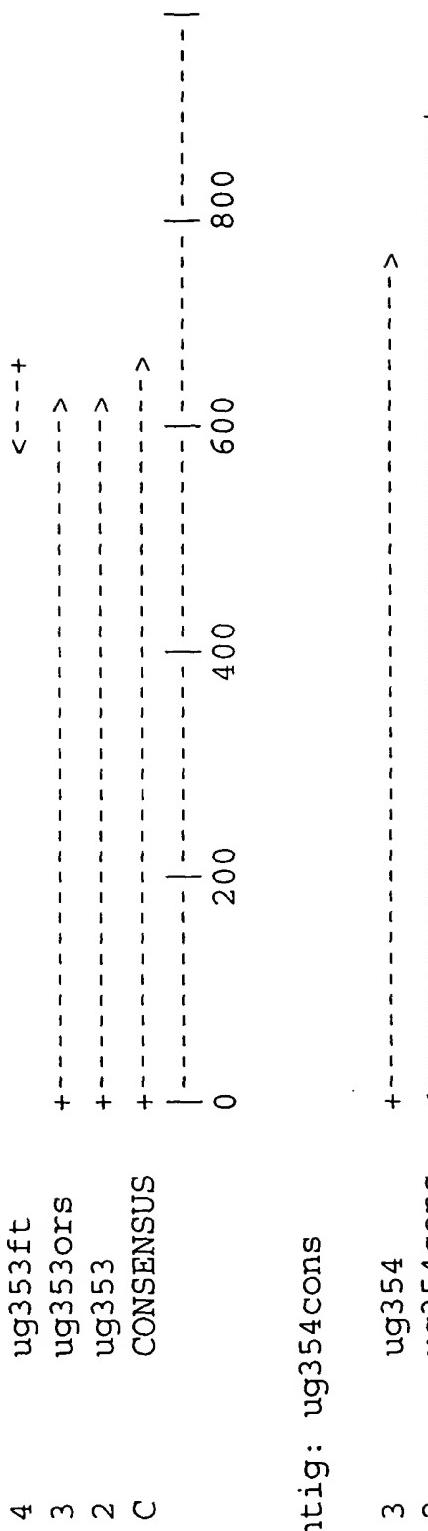


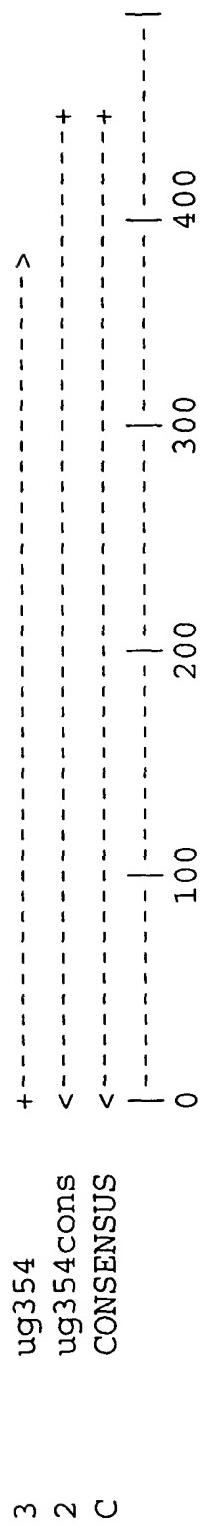
Fig. 8 - 93 of 180

361/472

Contig: ug353



Contig: ug354cons



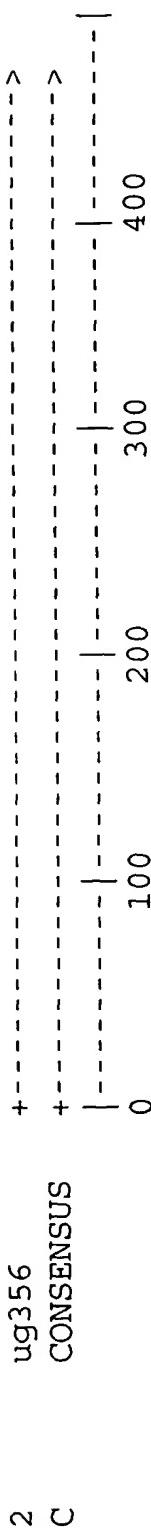
Contig: ug355



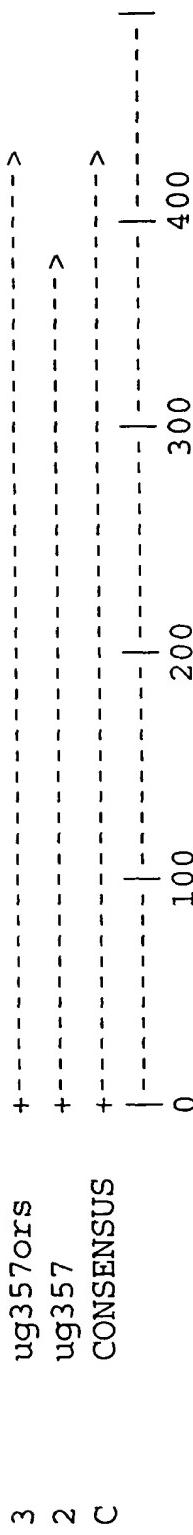
Fig. 8 - 94 of 180

362/472

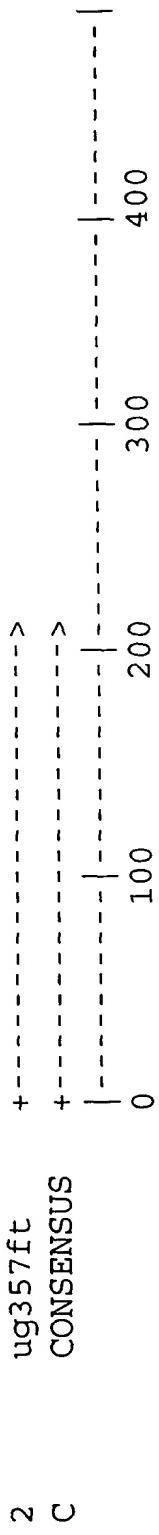
Contig: ug356



Contig: ug357



Contig: ug357ft



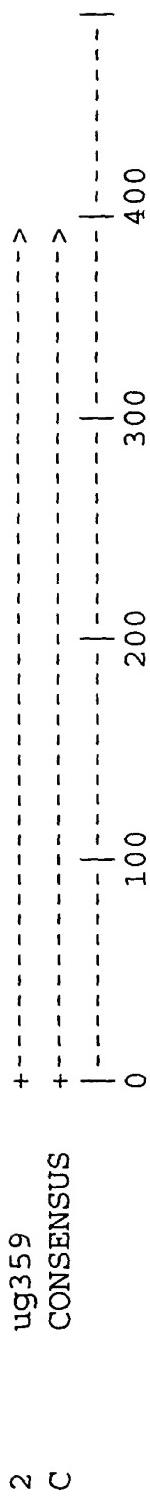
Contig: ug358



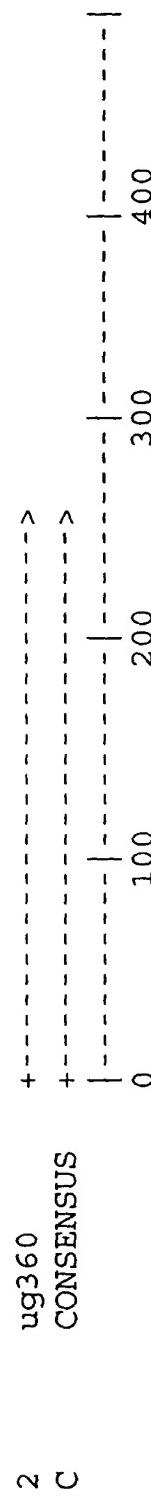
Fig. 8 - 95 of 180

363/472

Contig: ug359



Contig: ug360



Contig: ug361



Contig: ug363



Fig. 8 - 96 of 180

364/472

Contig: ug364



Contig: ug365



Contig: ug366

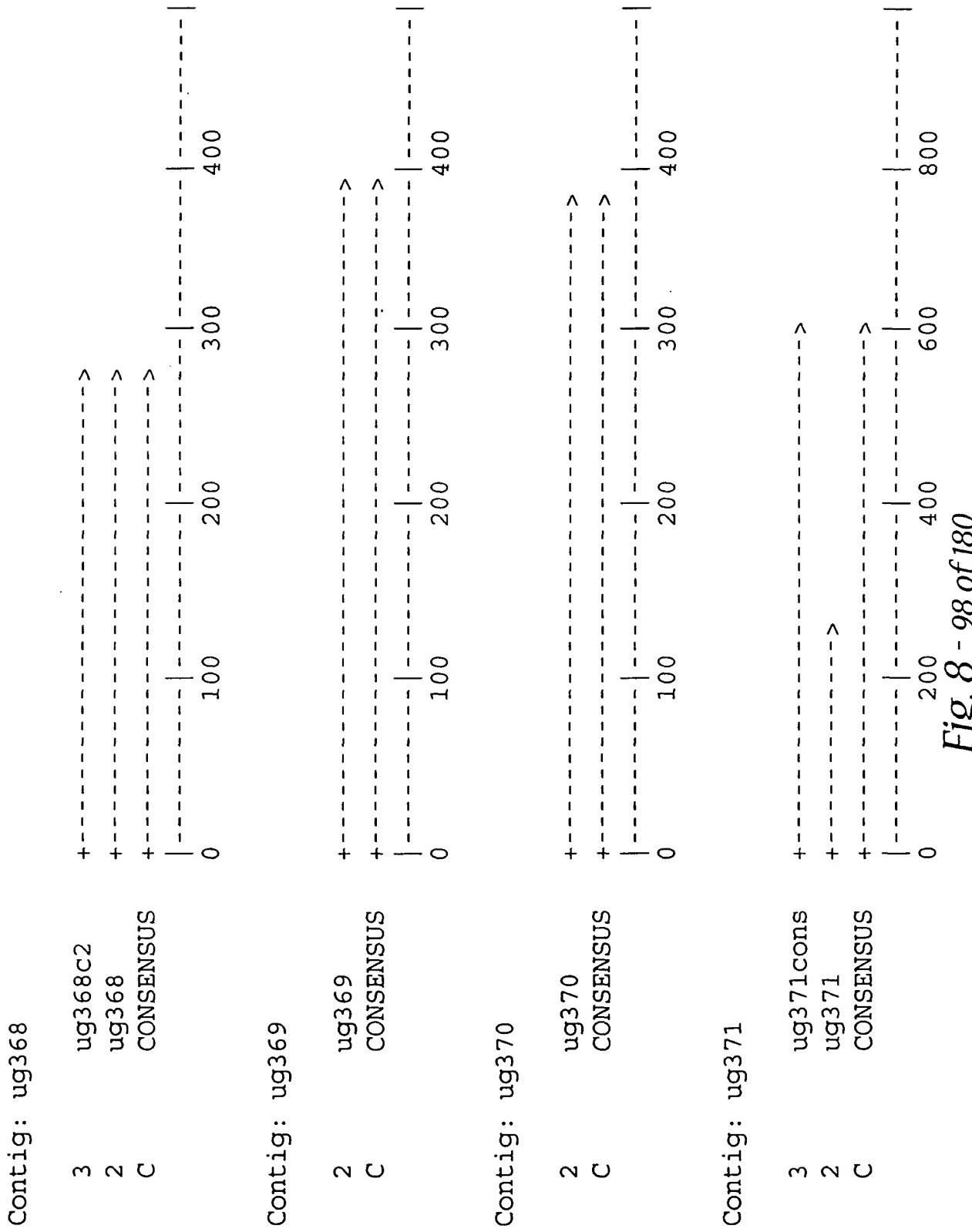


Contig: ug367

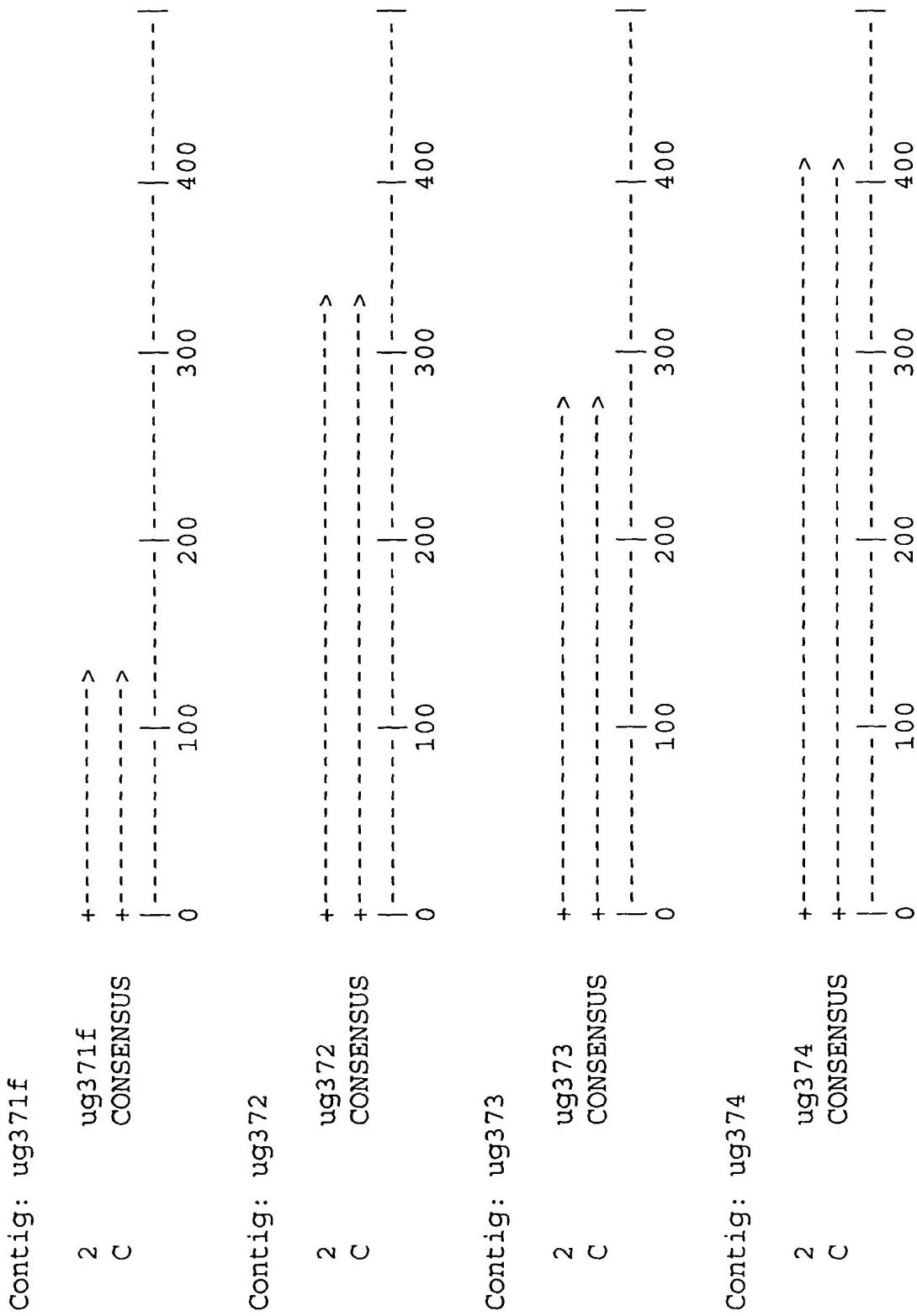


Fig. 8 - 97 of 180

365/472

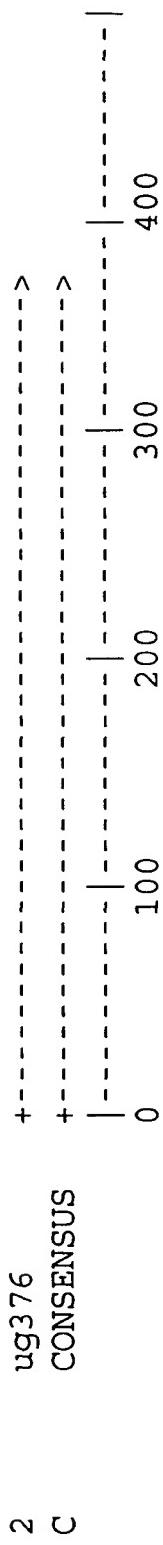


366/472

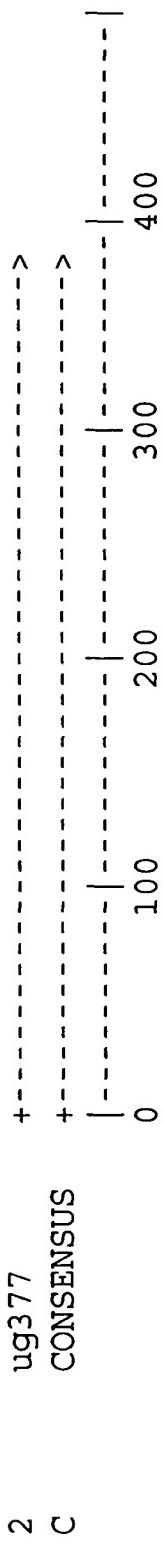


367/472

Contig: ug376



Contig: ug377



Contig: ug378



Contig: ug379

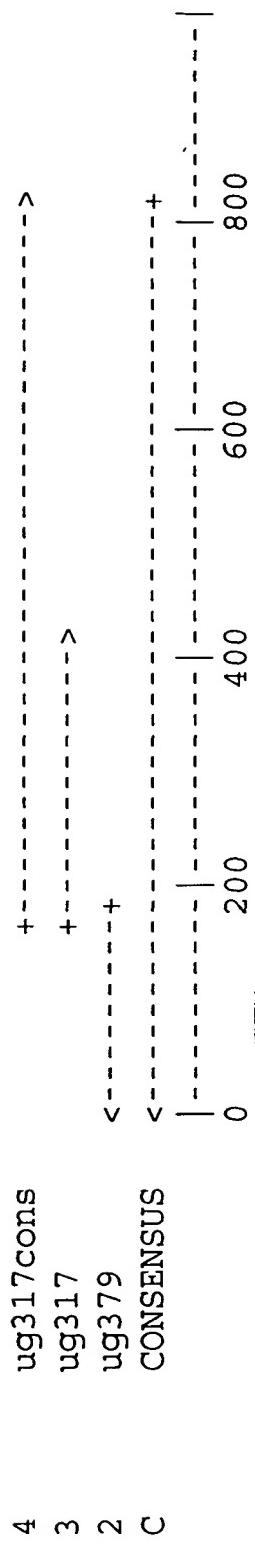


Fig. 8 - 100 of 180

368/472

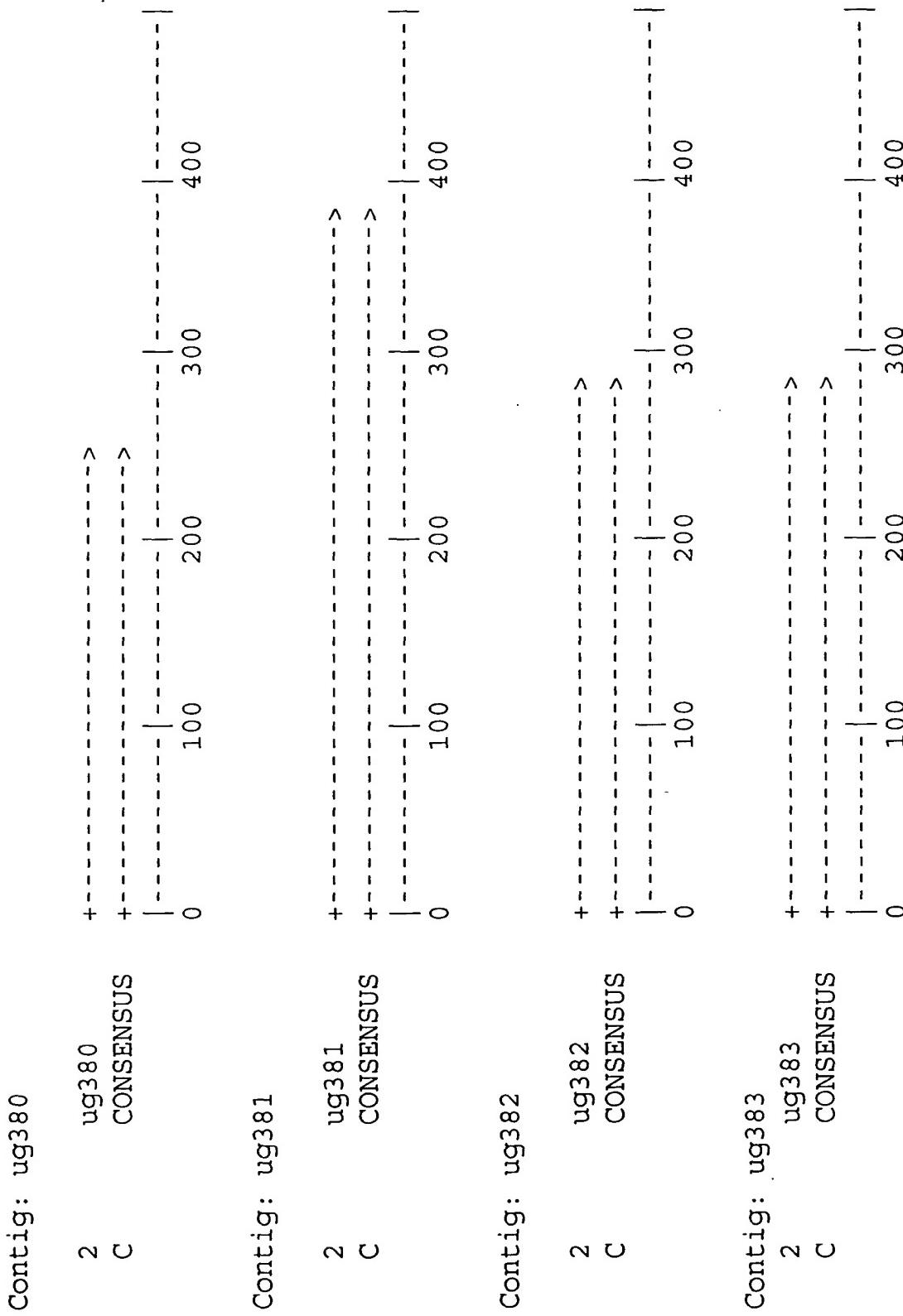
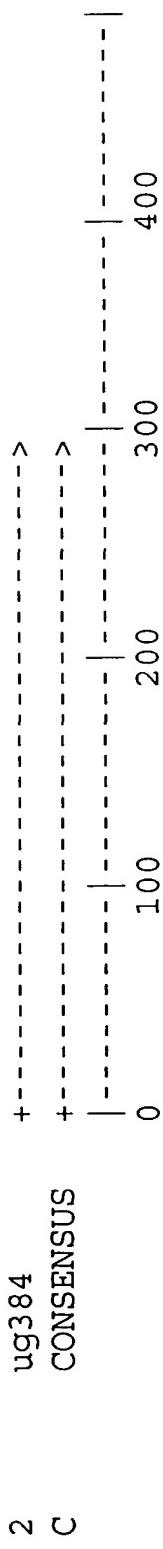


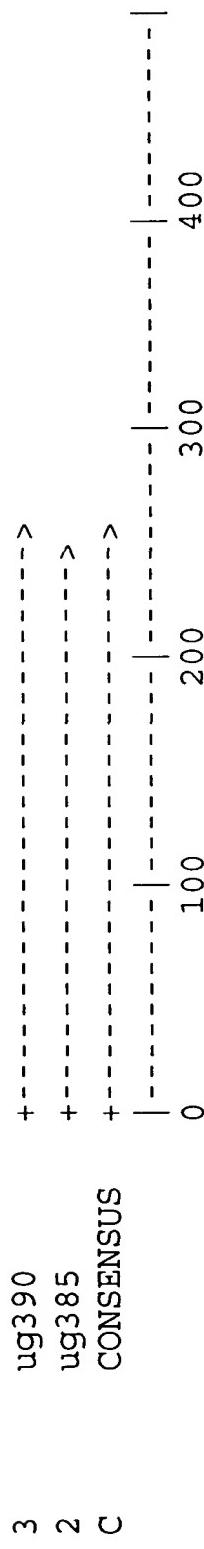
Fig. 8 - 101 of 180

369/472

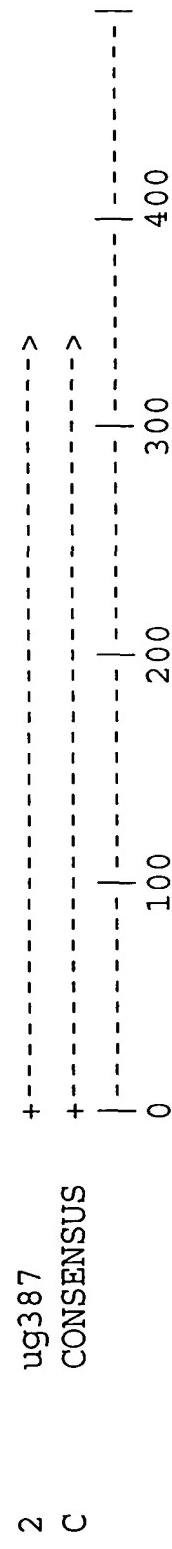
Contig: ug384



Contig: ug385



Contig: ug387



Contig: ug388

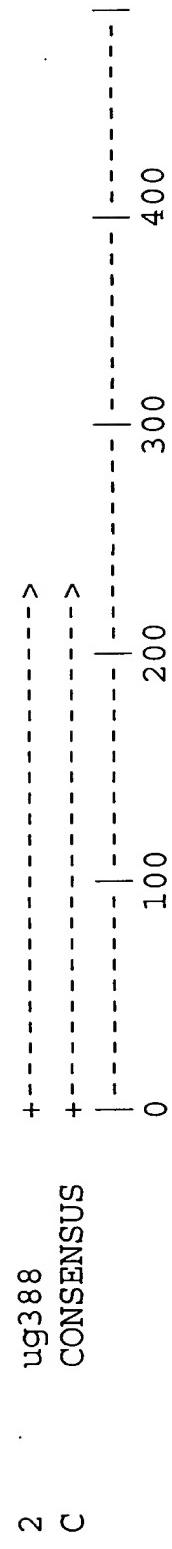


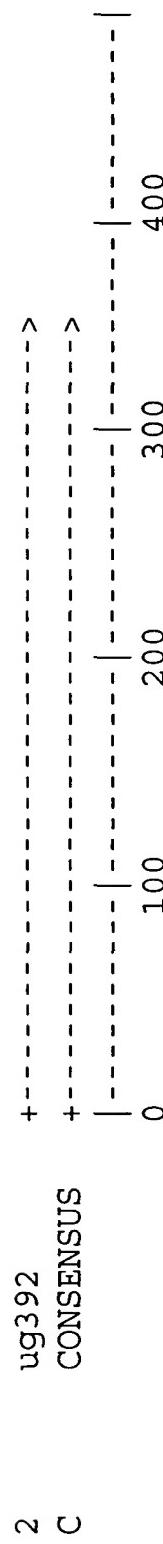
Fig. 8 - 102 of 180

370/472

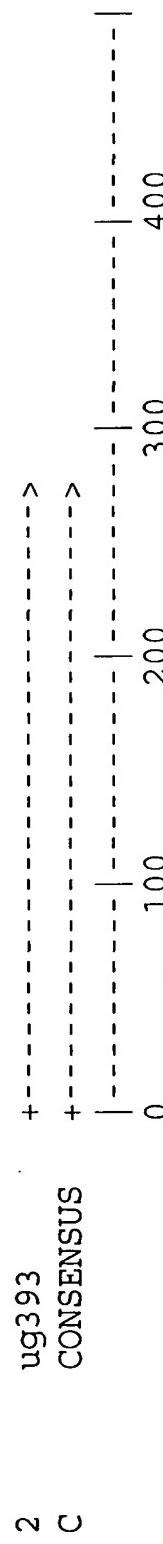
Contig: ug391



Contig: ug392



Contig: ug393



Contig: ug394

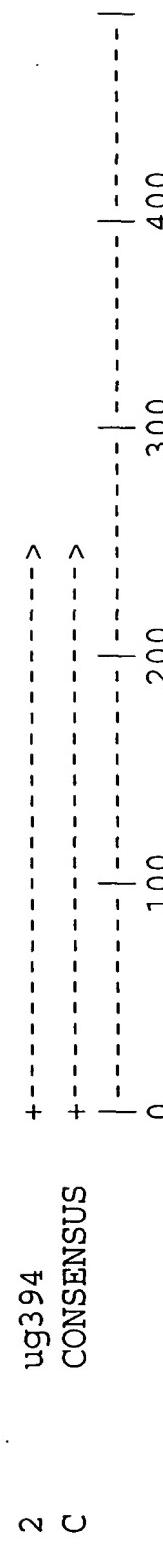


Fig. 8 - 103 of 180

371/472

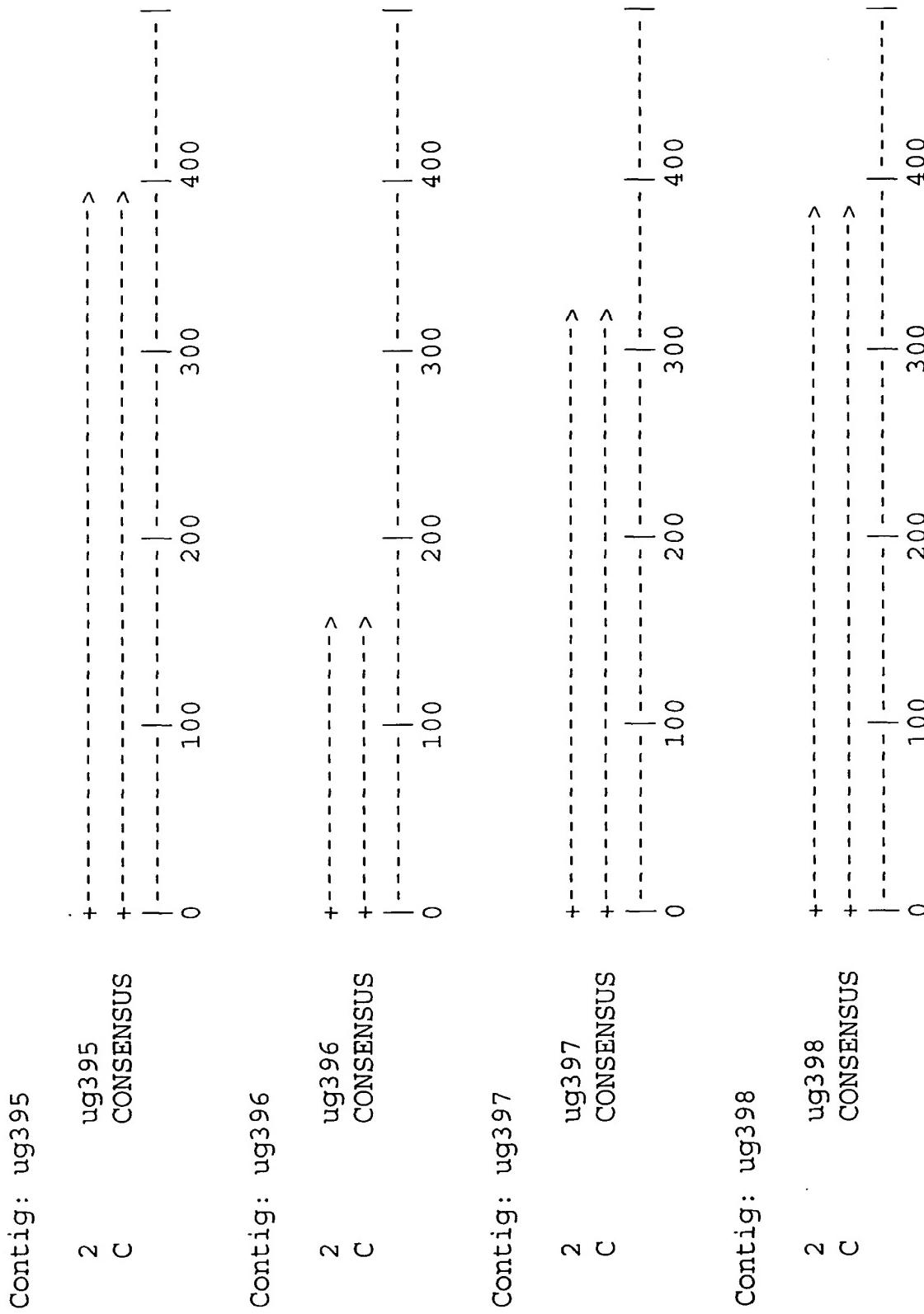


Fig. 8 - 104 of 180

372/472

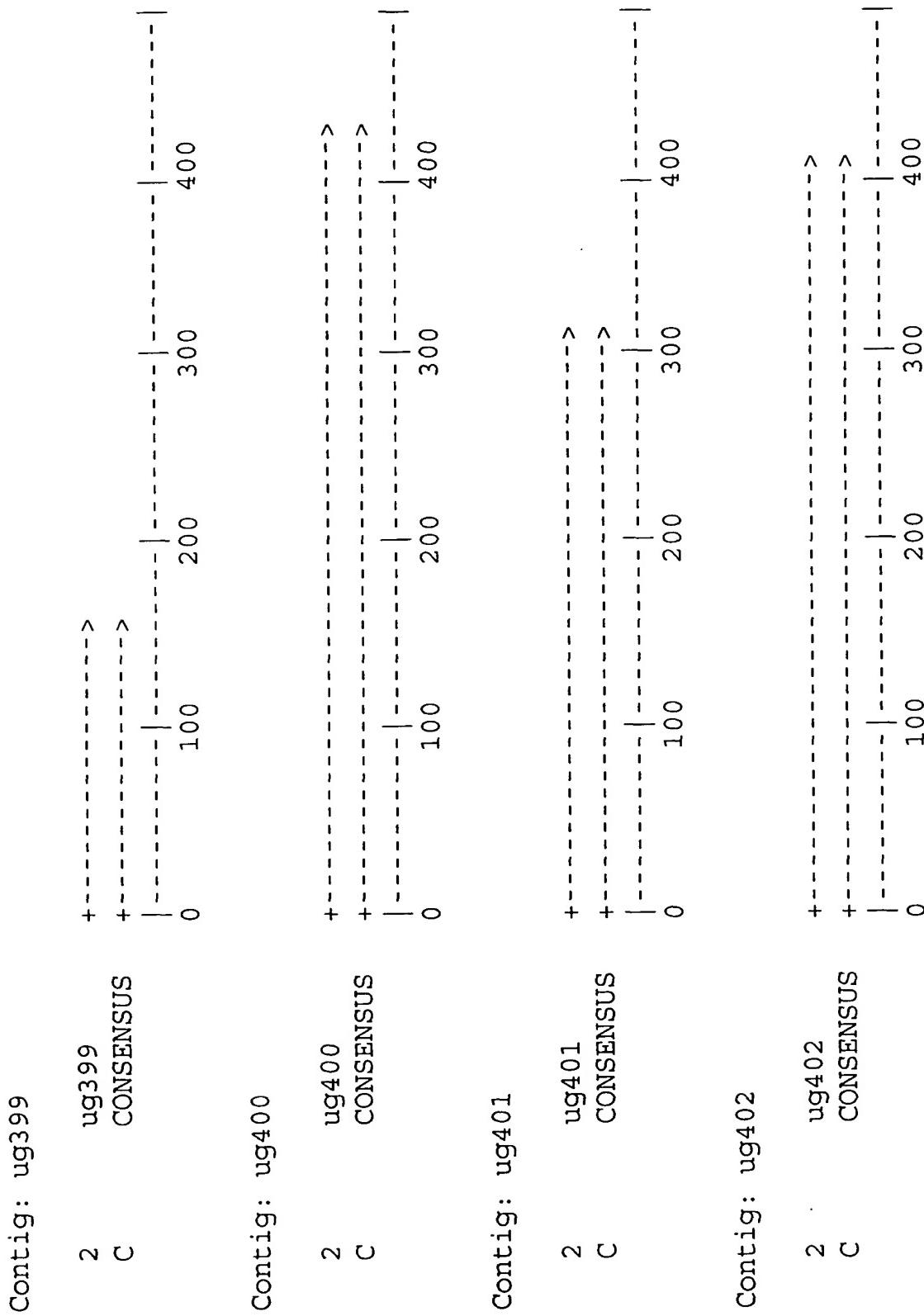


Fig. 8 - 105 of 180

373/472

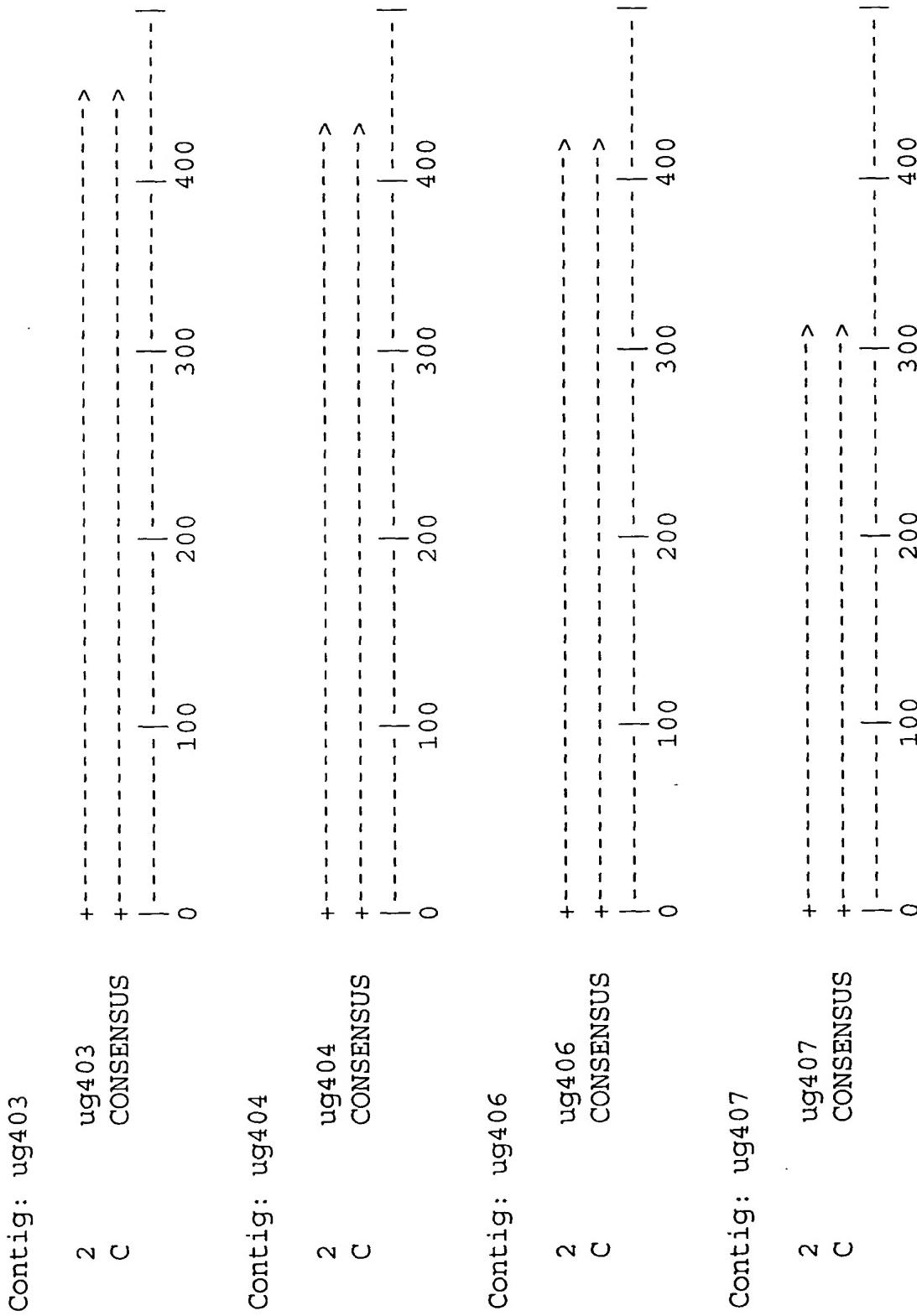
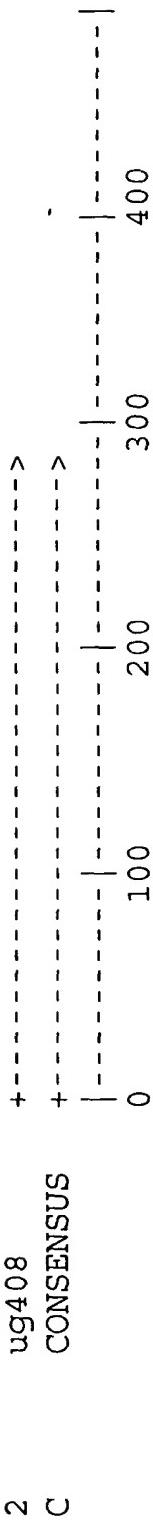


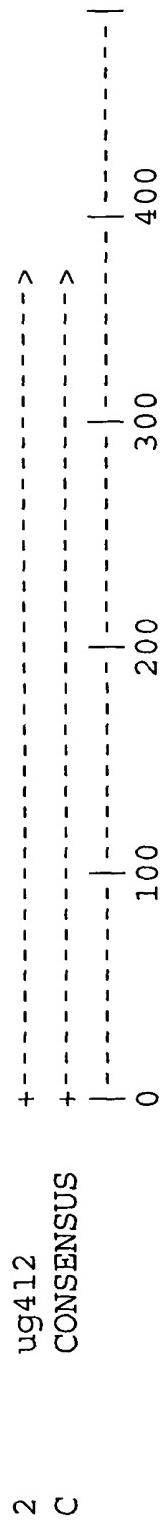
Fig. 8 - 106 of 180

374/472

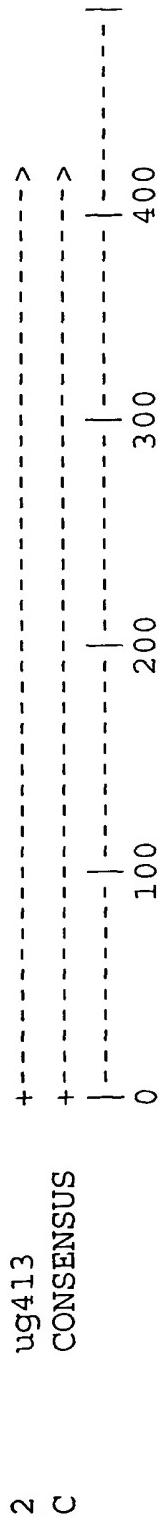
Contig: ug408



Contig: ug412



Contig: ug413



Contig: ug414

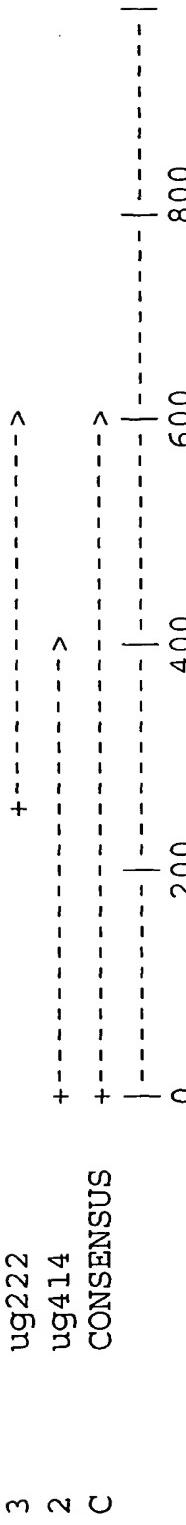
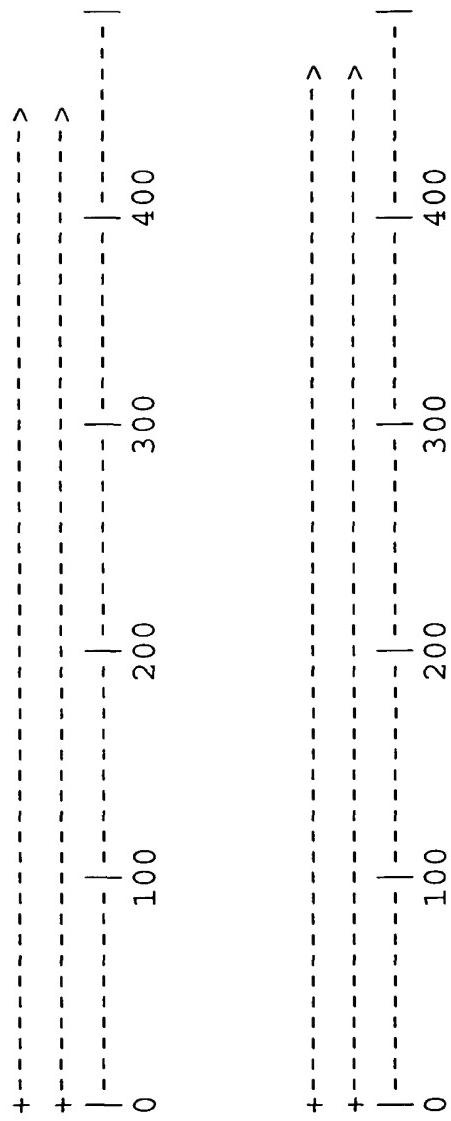


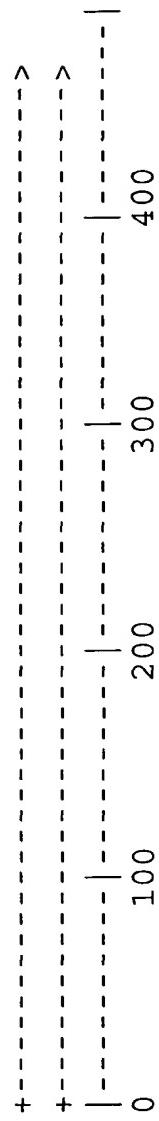
Fig. 8 - 107 of 180

375/472

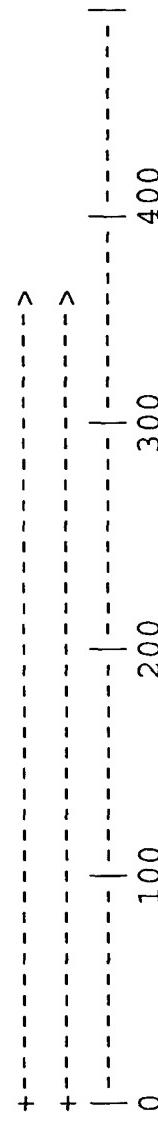
Contig: ug415



Contig: ug416



Contig: ug417



Contig: ug418

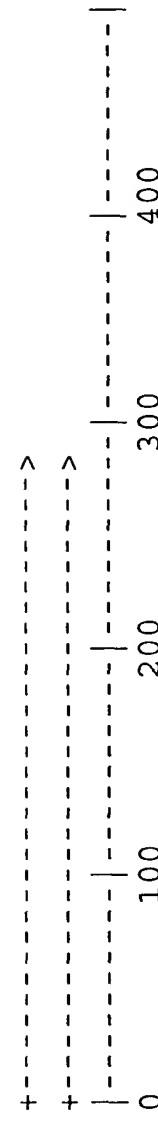
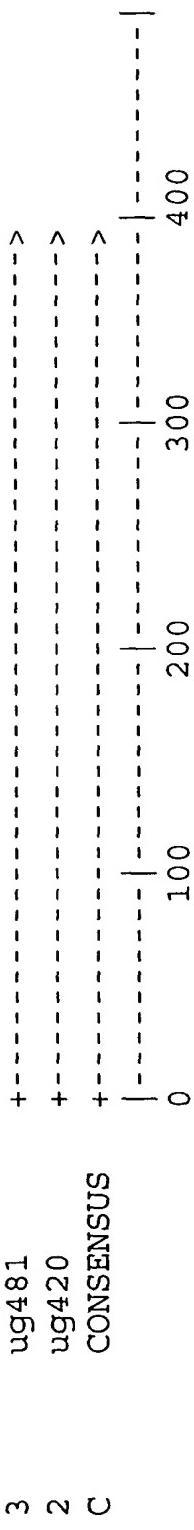


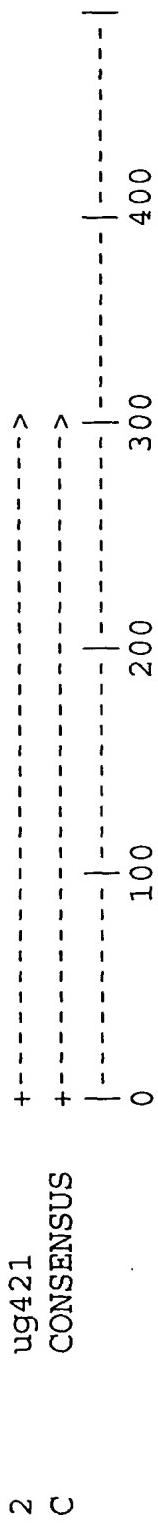
Fig. 8 - 108 of 180

376/472

Contig: ug420



Contig: ug421



Contig: ug422



Contig: ug423

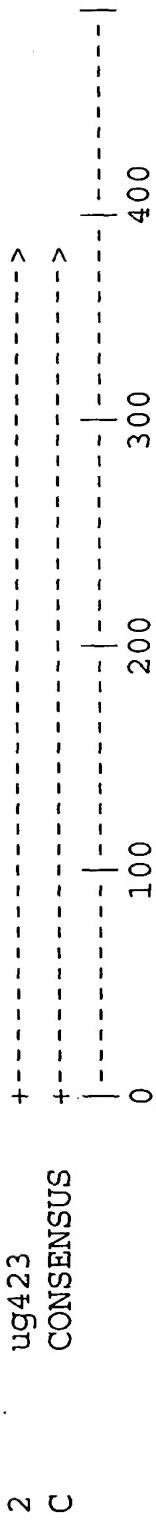
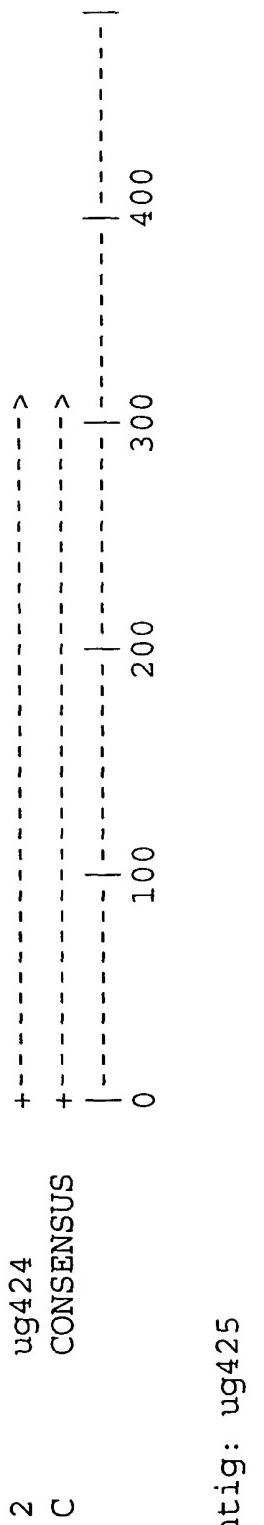


Fig. 8 - 109 of 180

377/472

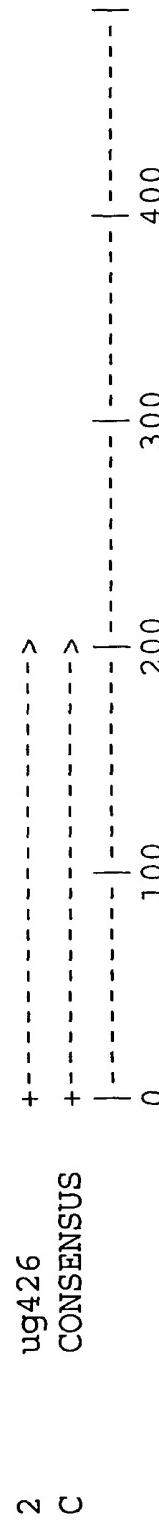
Contig: ug424



Contig: ug425



Contig: ug426



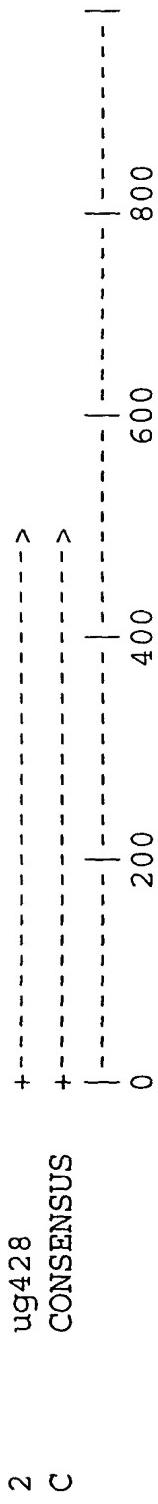
Contig: ug427



Fig. 8 - 110 of 180

378/472

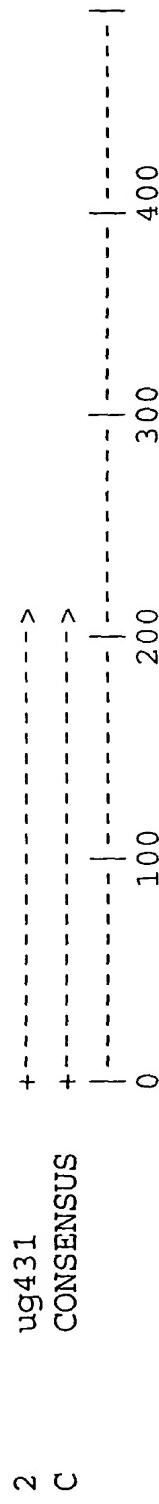
Contig: ug428



Contig: ug429



Contig: ug431



Contig: ug432

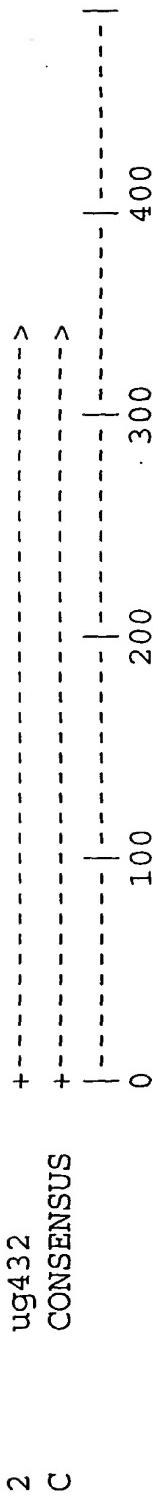


Fig. 8 - III of 180

379/472

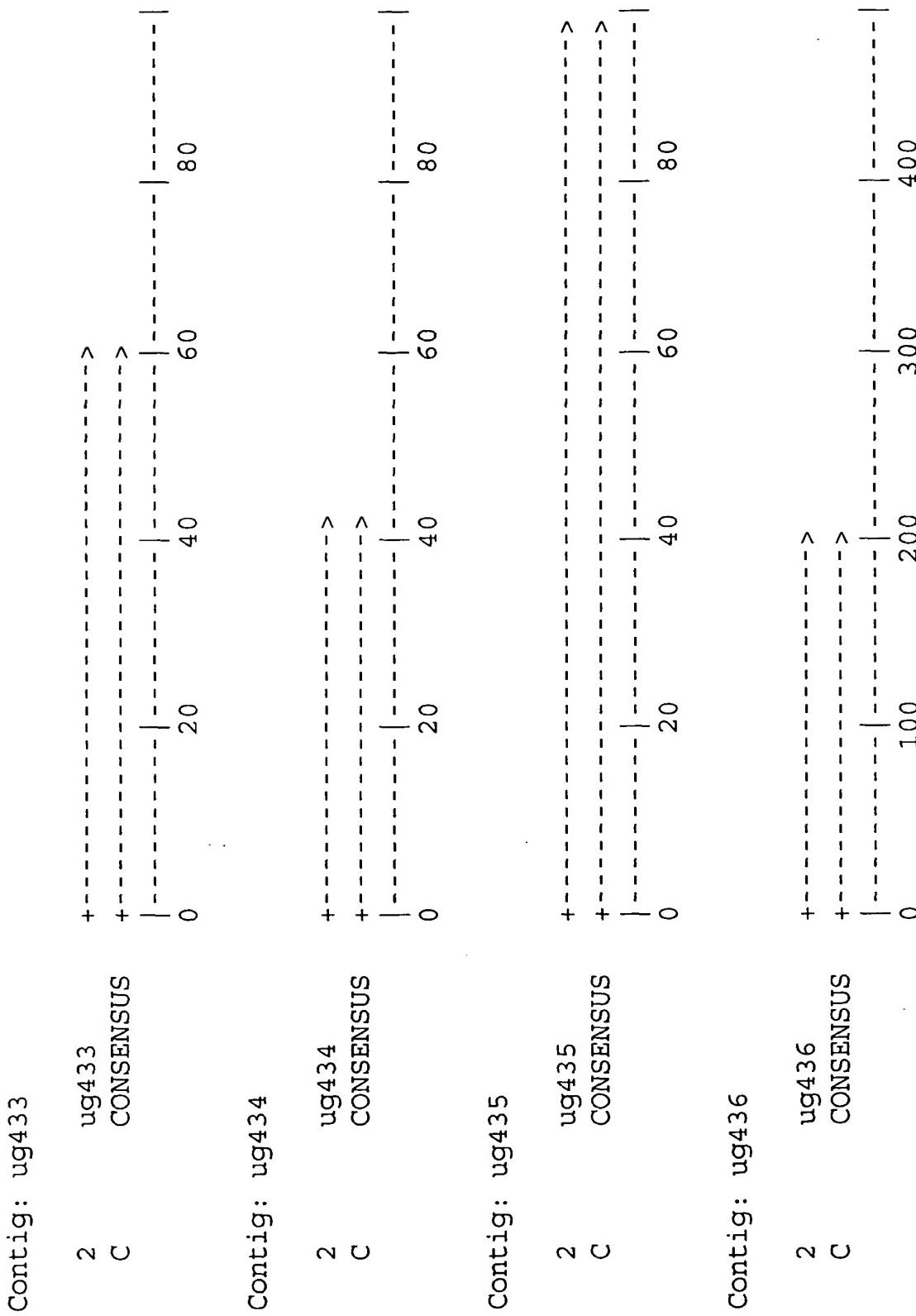


Fig. 8 - 112 of 180

380/472

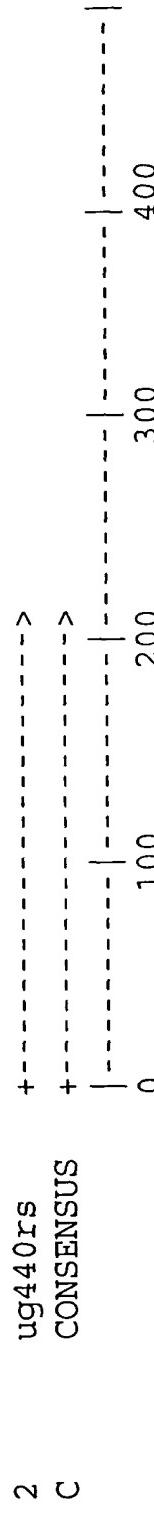
Contig: ug437



Contig: ug439



Contig: ug440rs



Contig: ug441

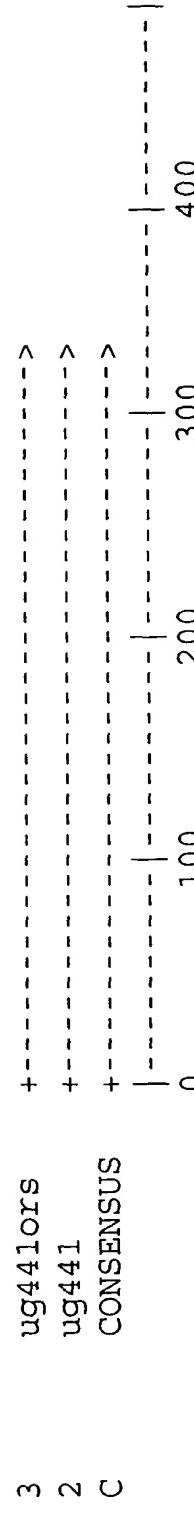
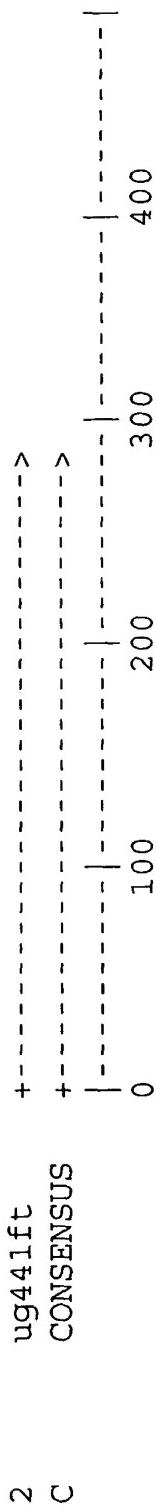


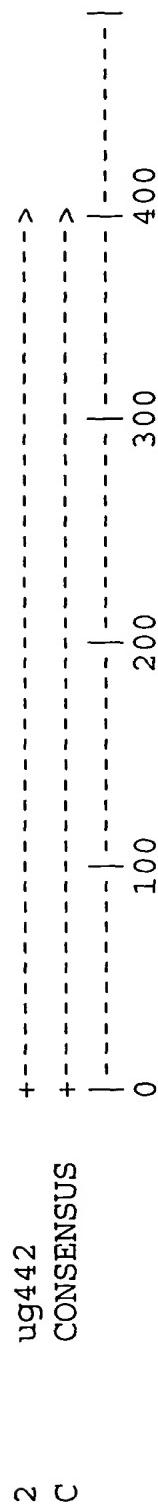
Fig. 8 - 113 of 180

381/472

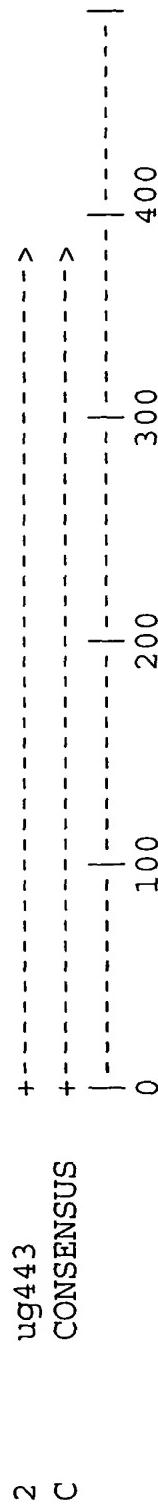
Contig: ug441ft



Contig: ug442



Contig: ug443



Contig: ug445

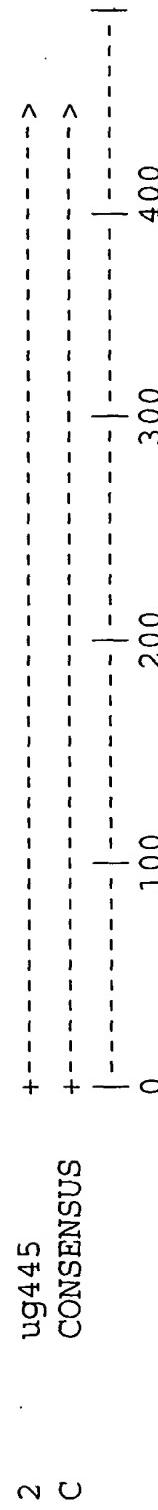


Fig. 8 - 114 of 180

382/472

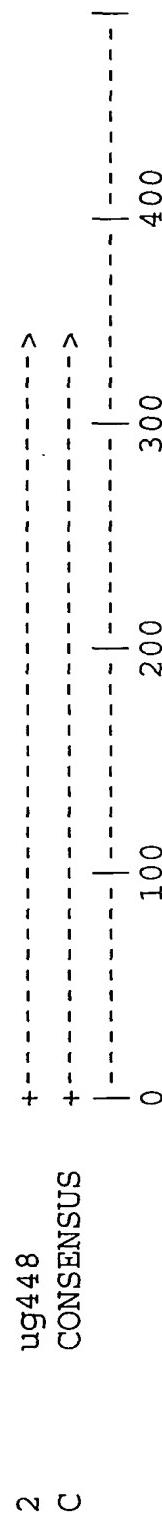
Contig: ug446



Contig: ug447



Contig: ug448



Contig: ug450

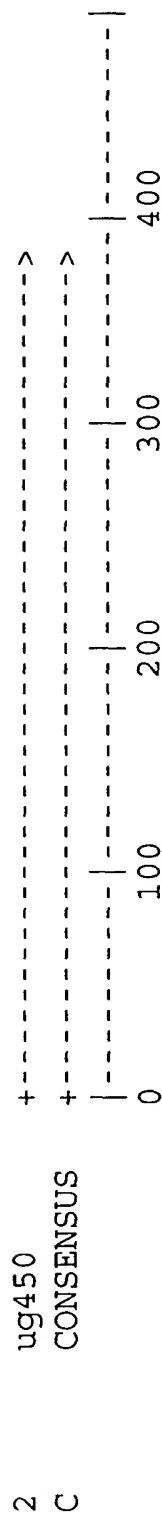


Fig. 8 - 115 of 180

383/472

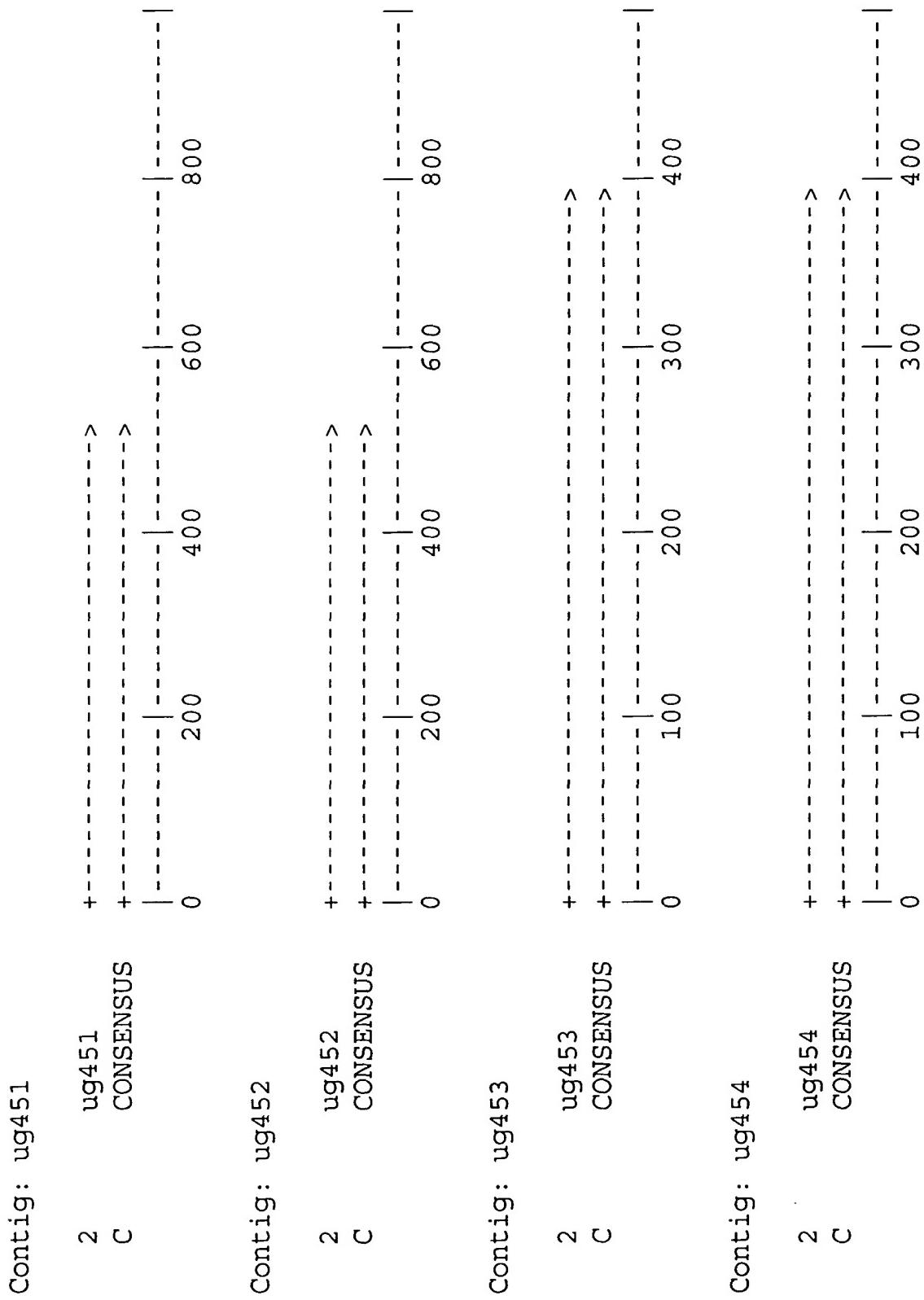


Fig. 8 - 116 of 180

384/472

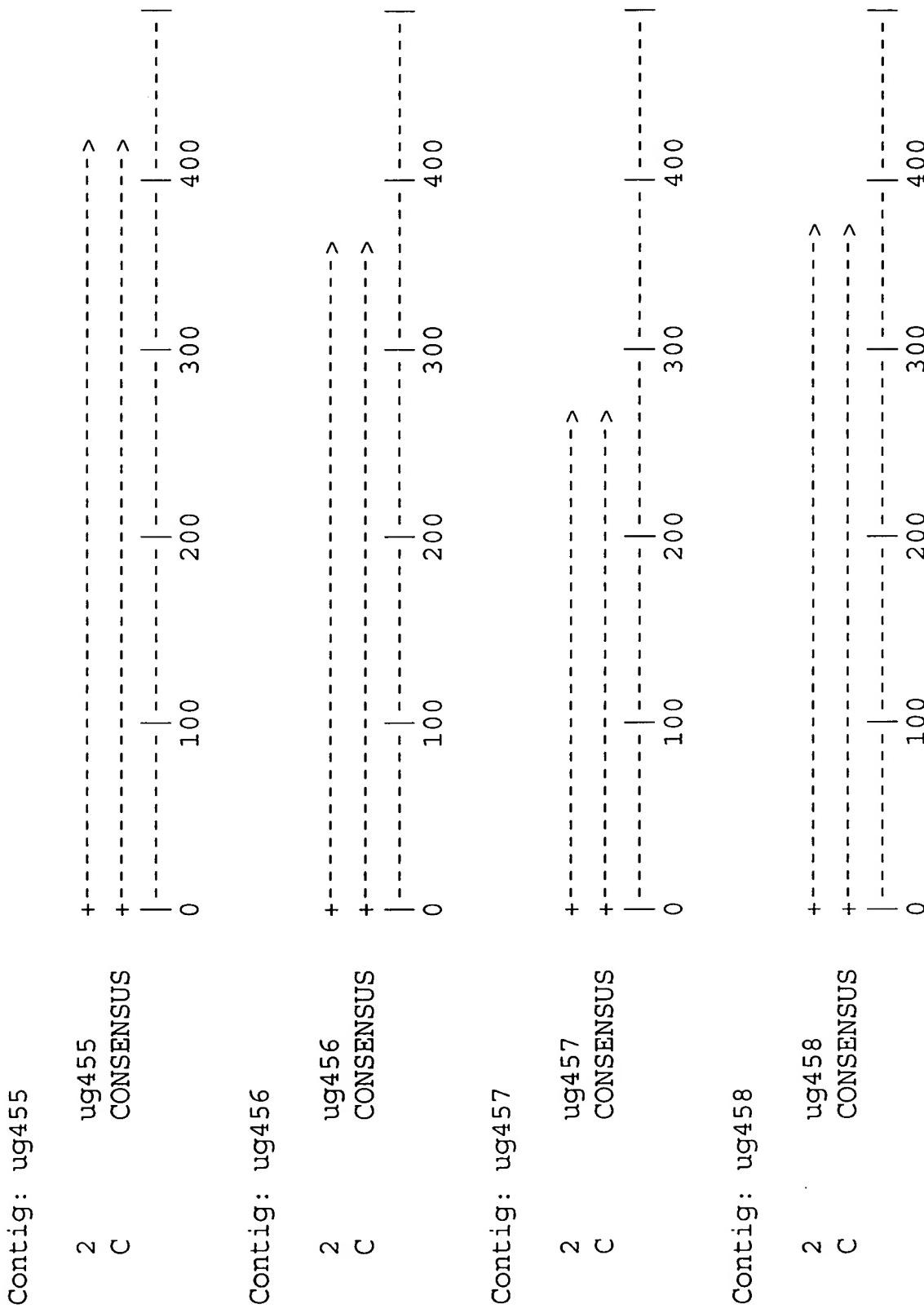


Fig. 8 - 117 of 180

385/472

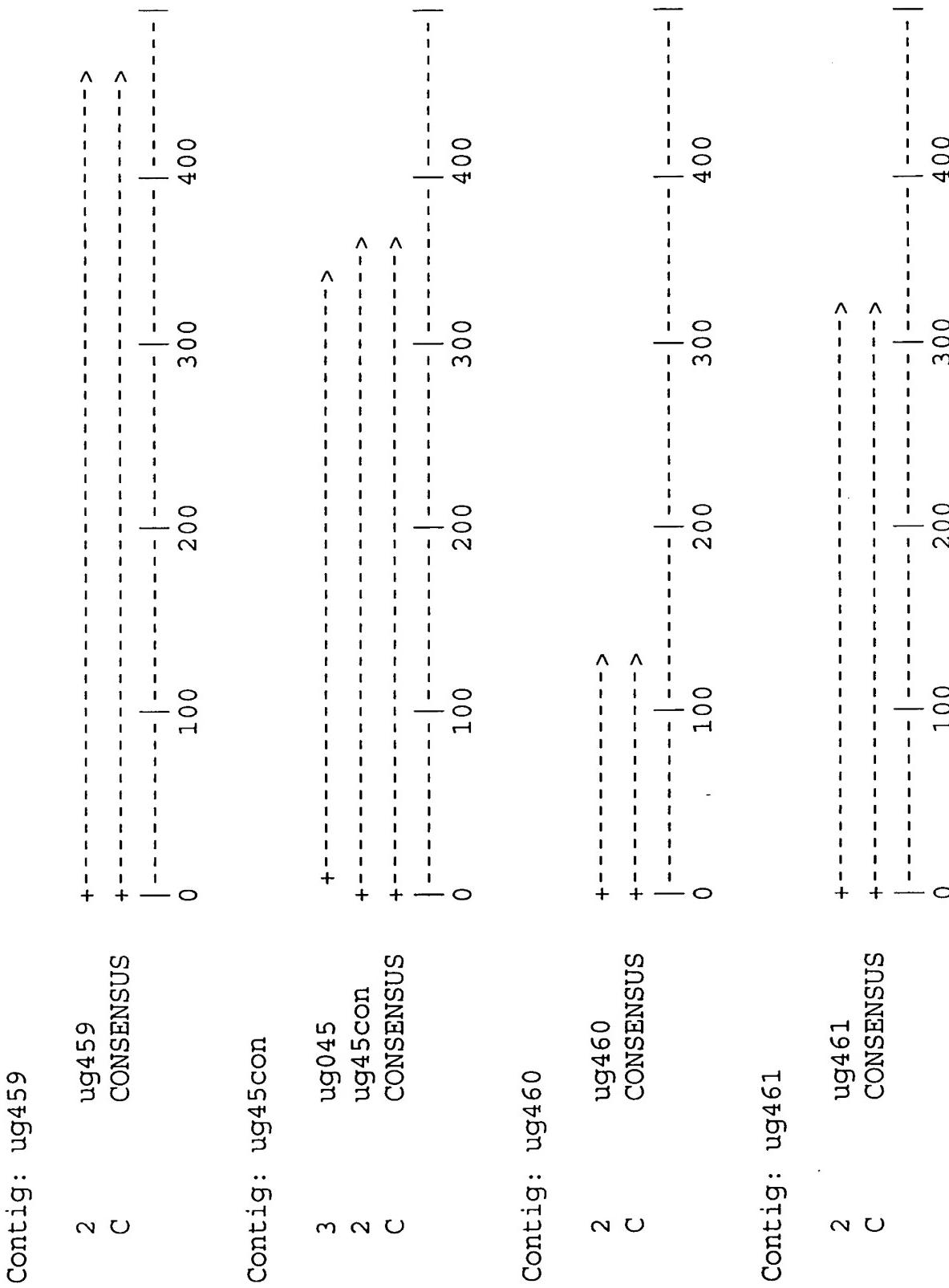


Fig. 8 - 118 of 180

386/472

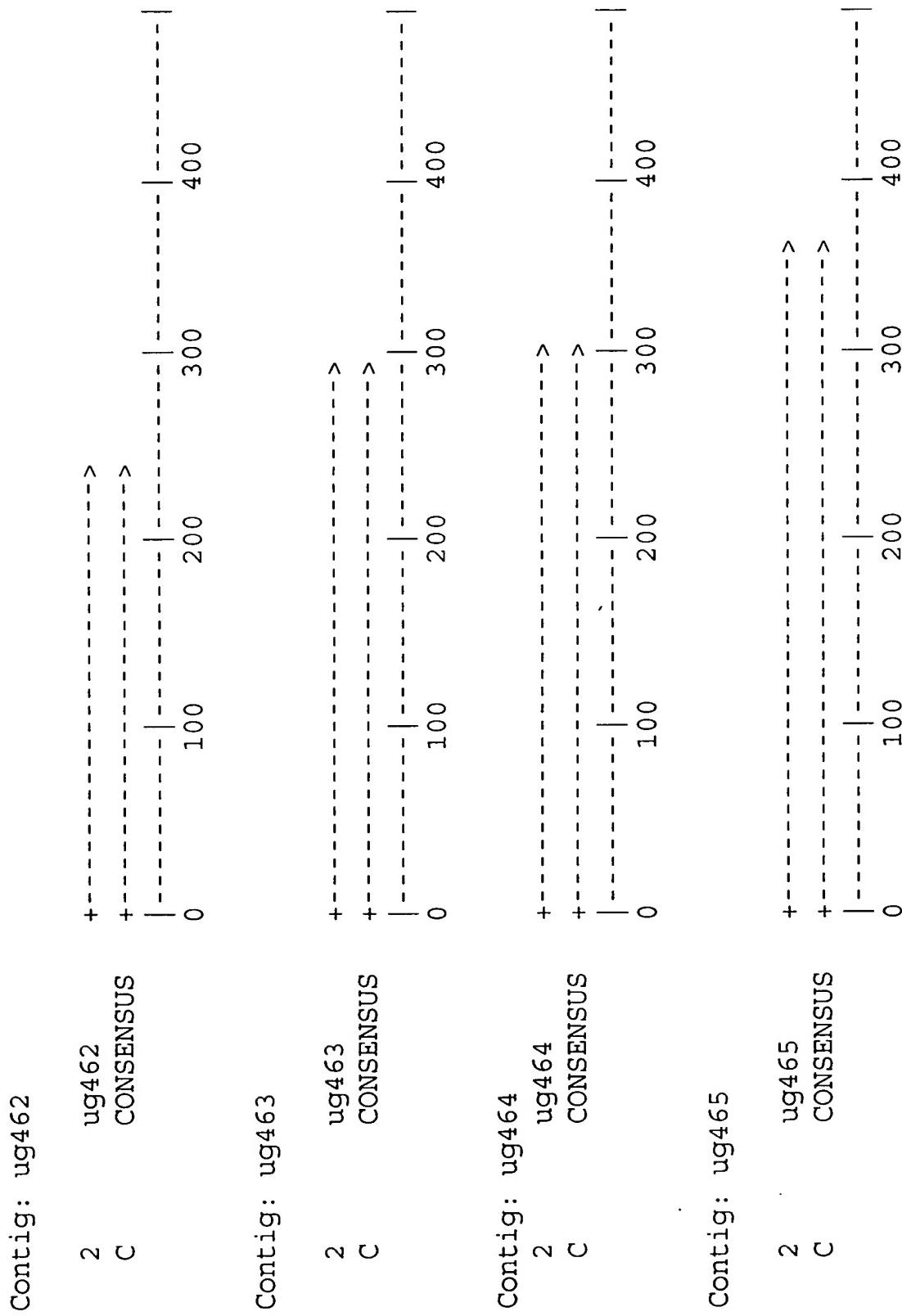
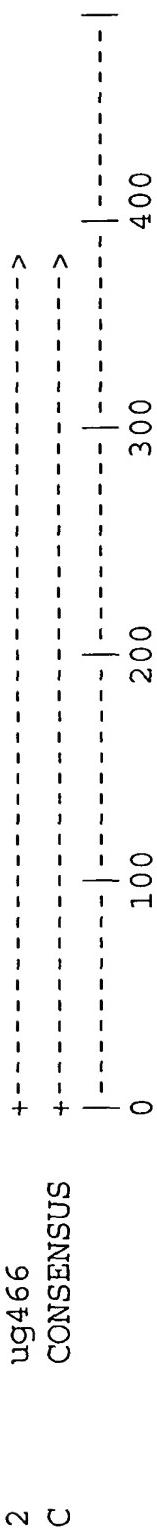


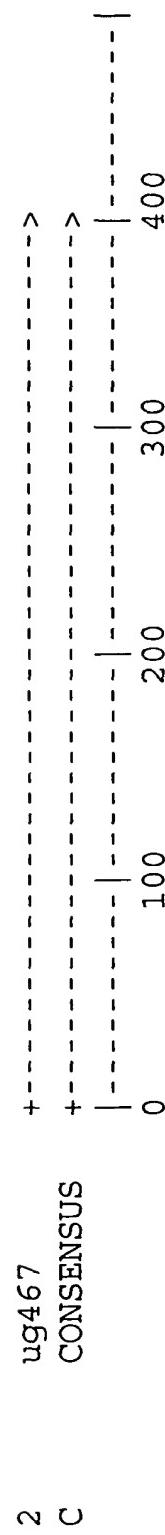
Fig. 8 - 119 of 180

387/472

Contig: ug466



Contig: ug467



Contig: ug468



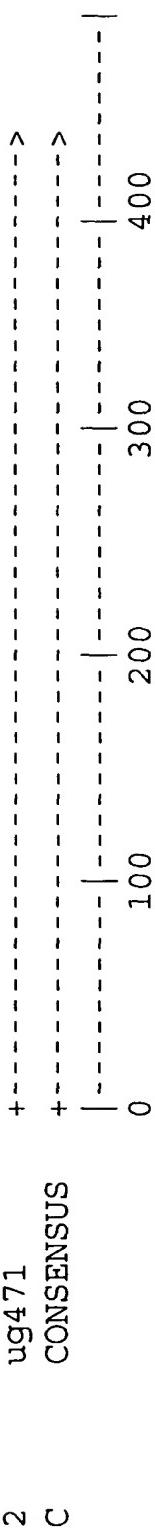
Contig: ug470



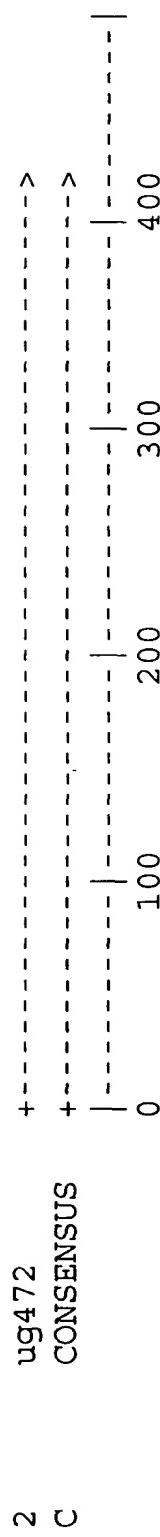
Fig. 8 - 120 of 180

388/472

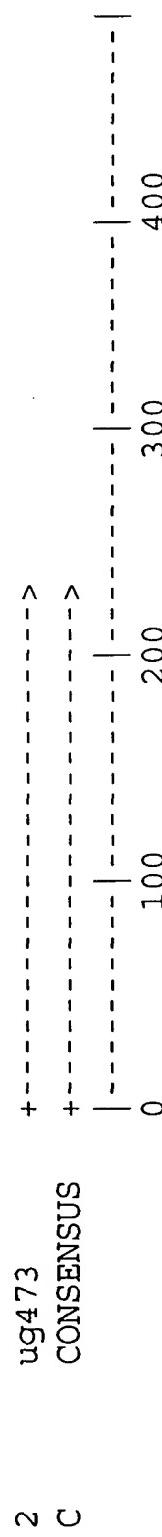
Contig: ug471



Contig: ug472



Contig: ug473



Contig: ug475

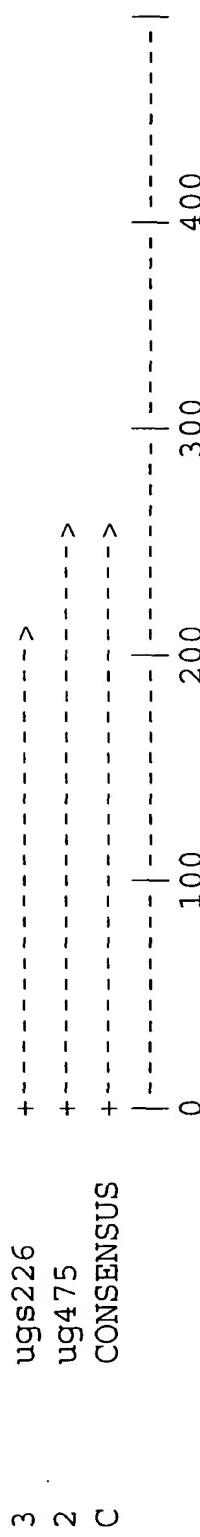


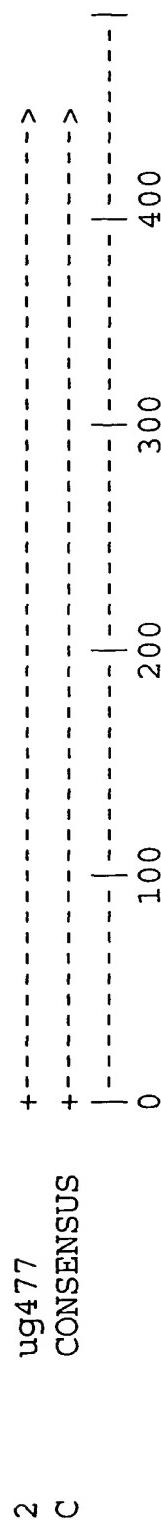
Fig. 8 - 121 of 180

389/472

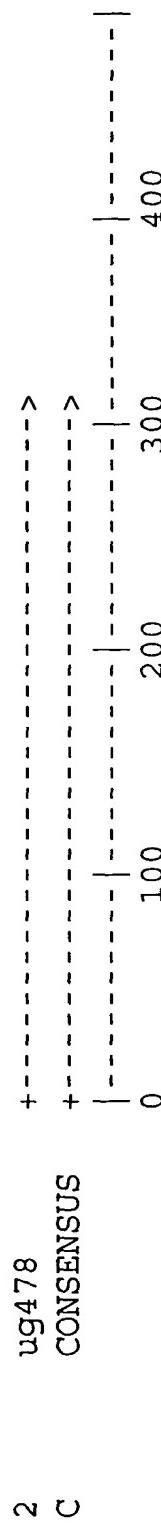
Contig: ug476



Contig: ug477



Contig: ug478



Contig: ug479

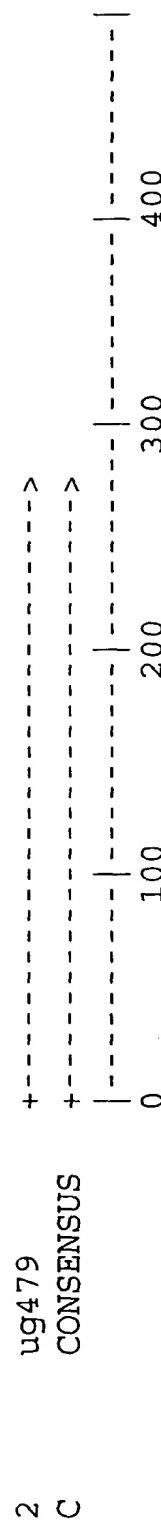
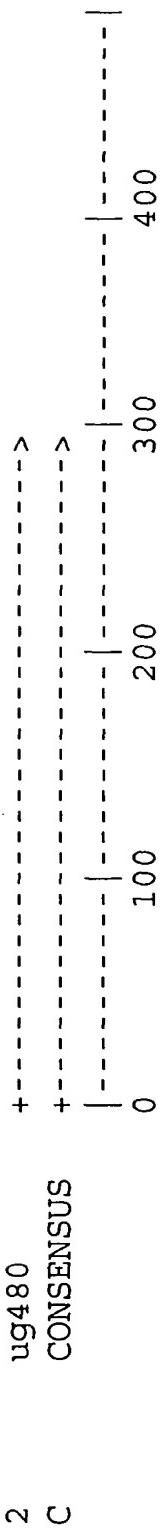


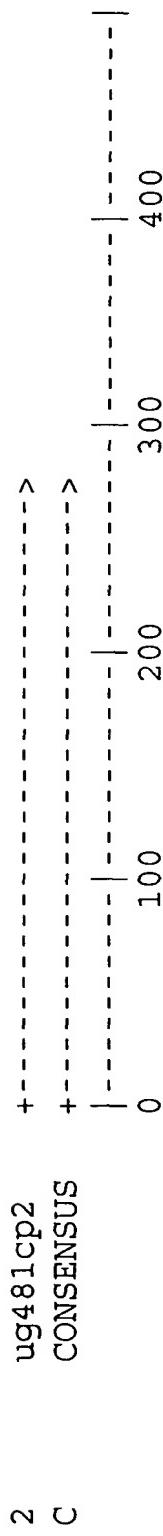
Fig. 8 - 122 of 180

390/472

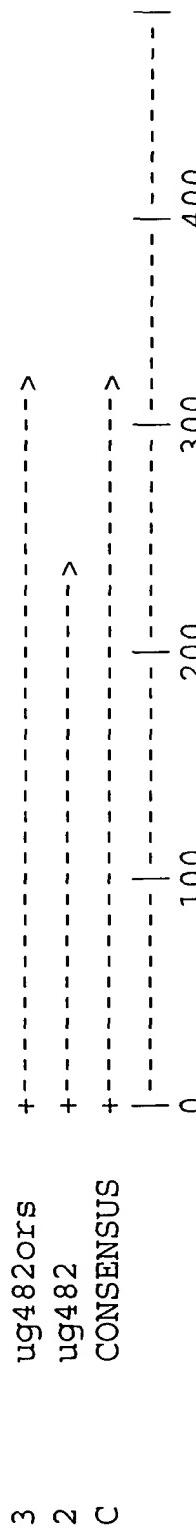
Contig: ug480



Contig: ug481cp2



Contig: ug482



Contig: ug482ft

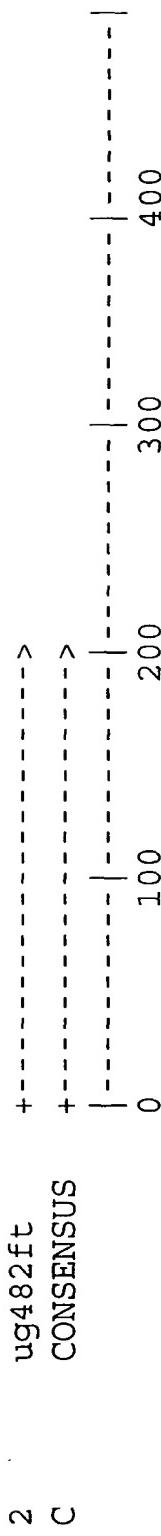
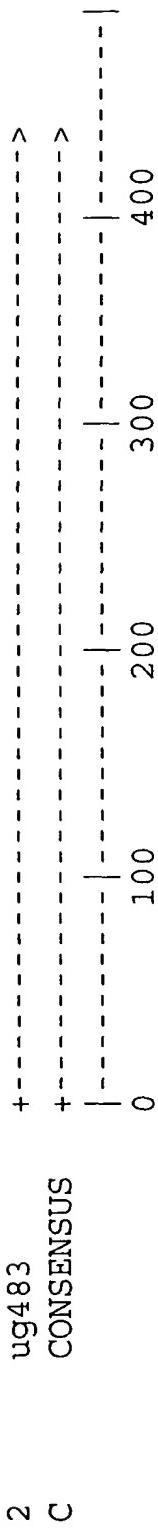


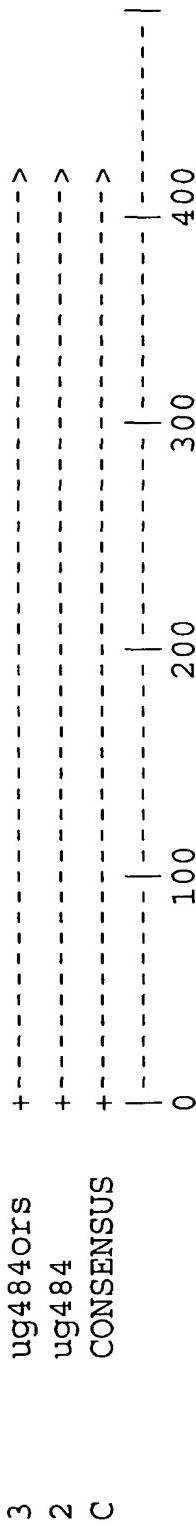
Fig. 8 - 123 of 180

391/472

Contig: ug483



Contig: ug484



Contig: ug484ft



Contig: ug485t

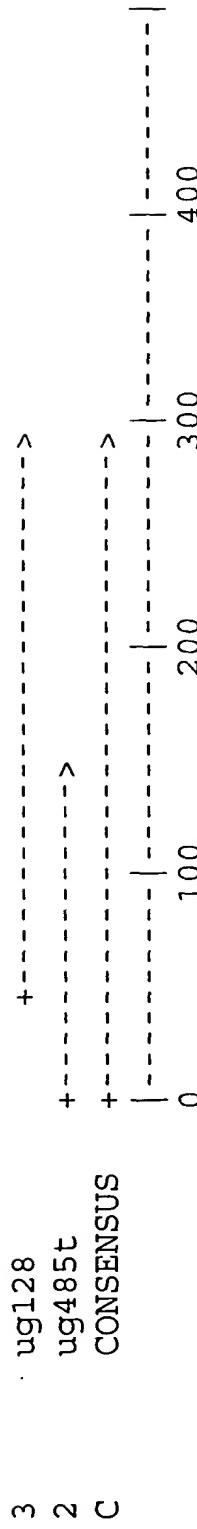


Fig. 8 - 124 of 180

392/472

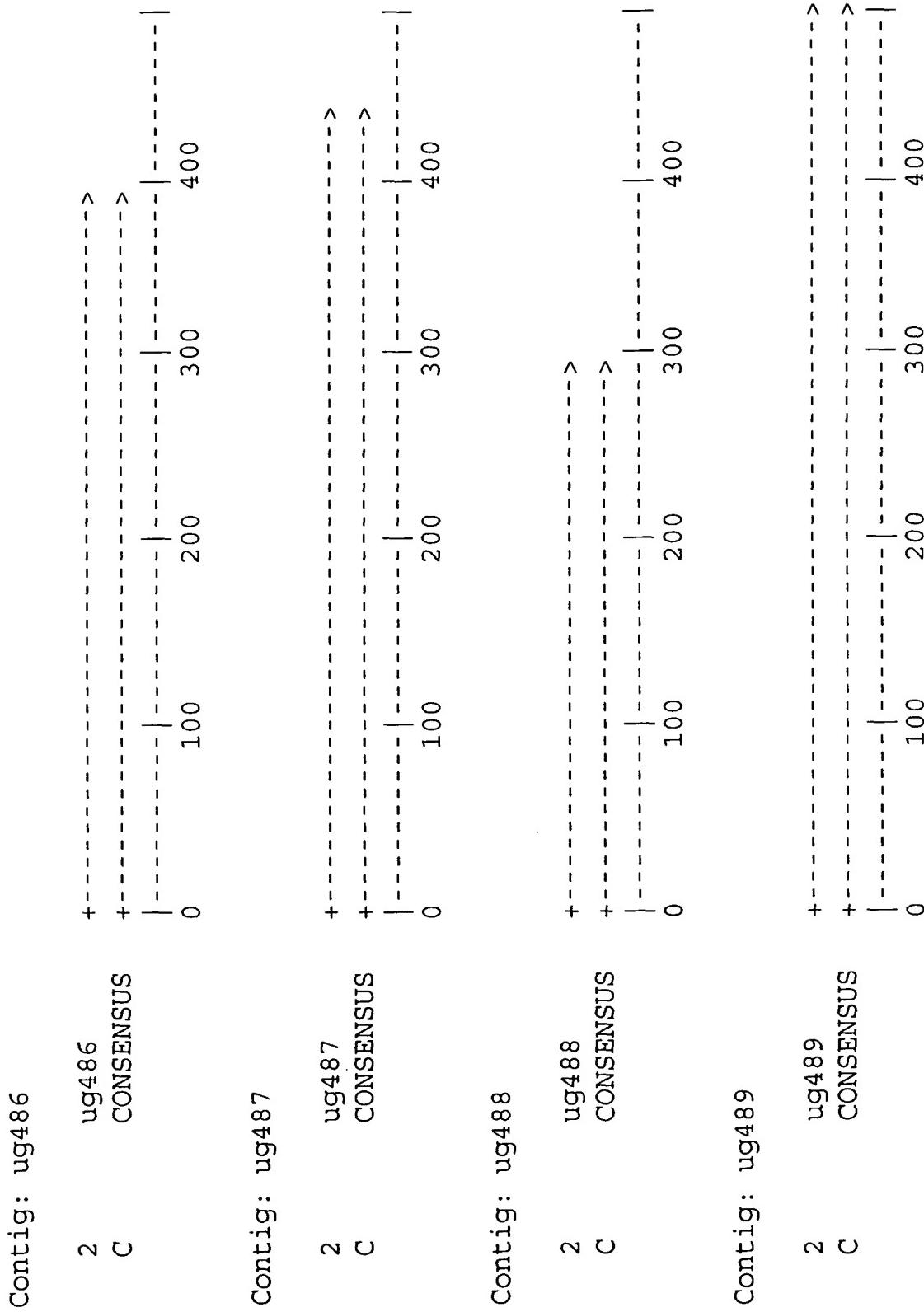
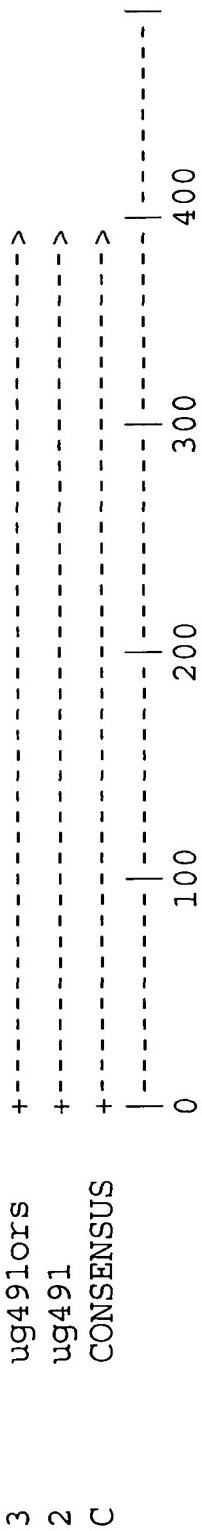


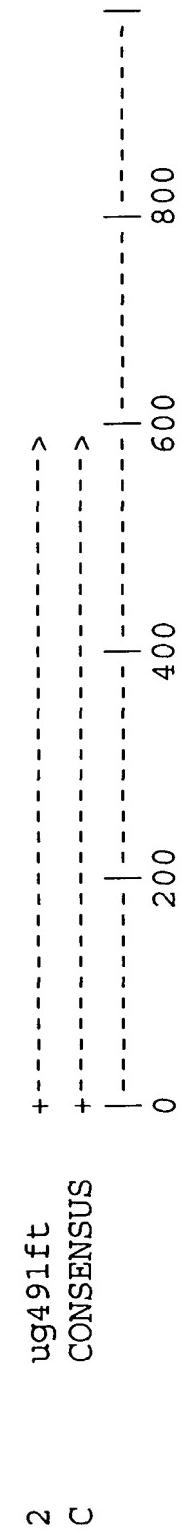
Fig. 8 - 125 of 180

393/472

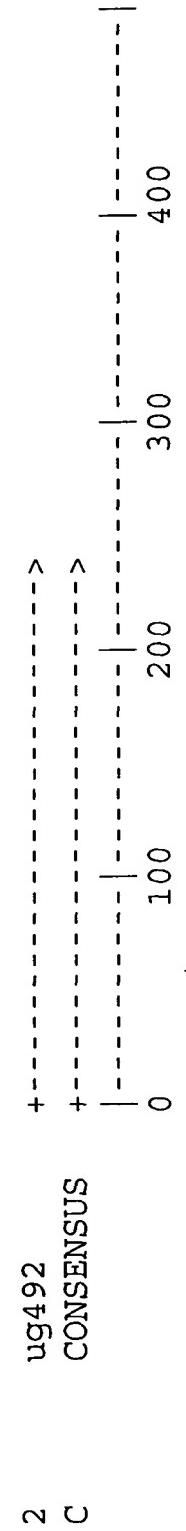
Contig: ug491



Contig: ug491ft



Contig: ug492



Contig: ug493

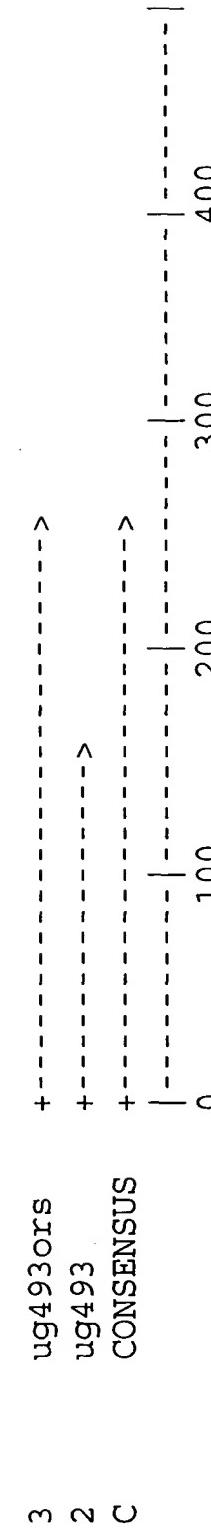


Fig. 8 - 126 of 180

394/472

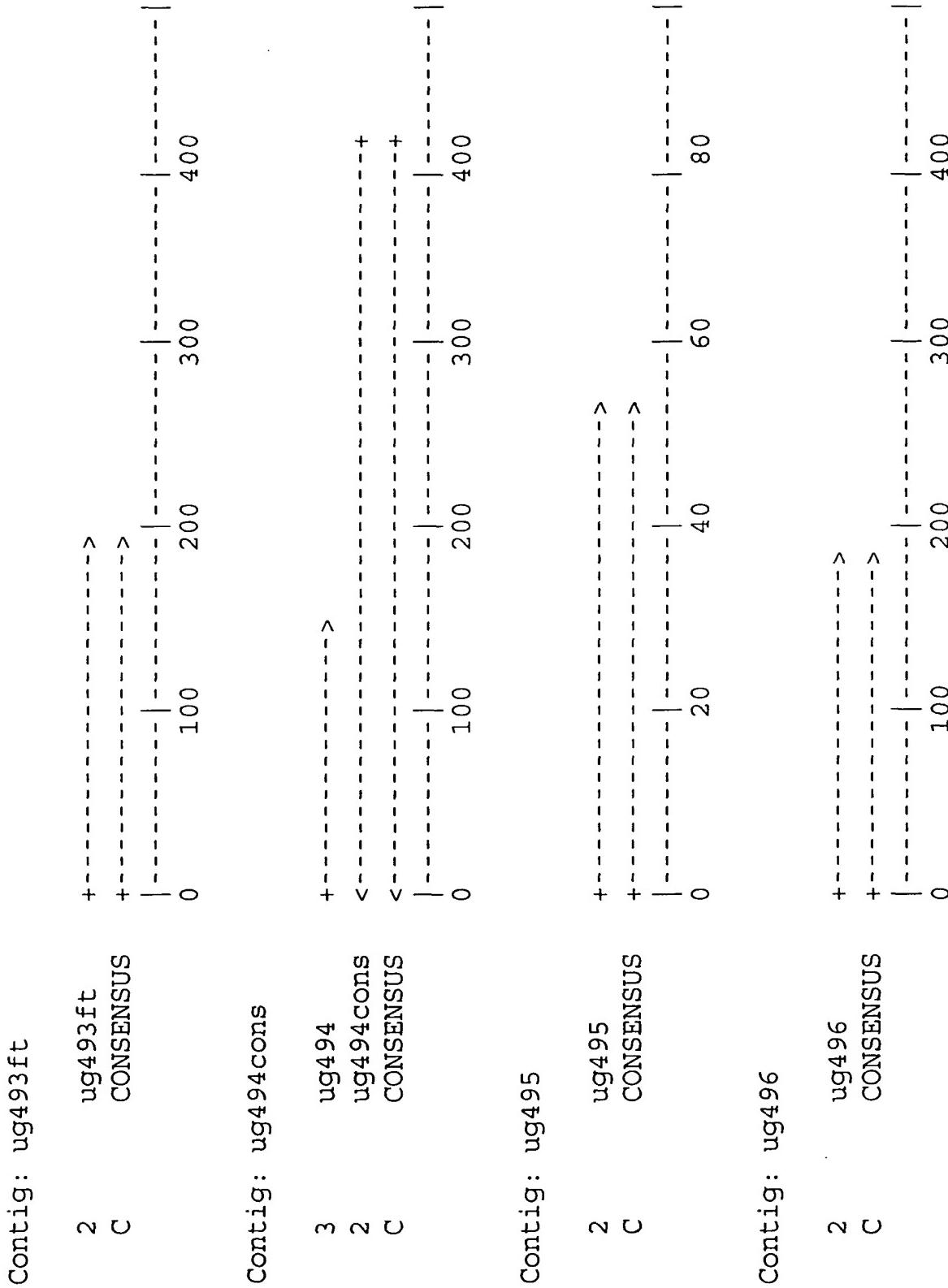
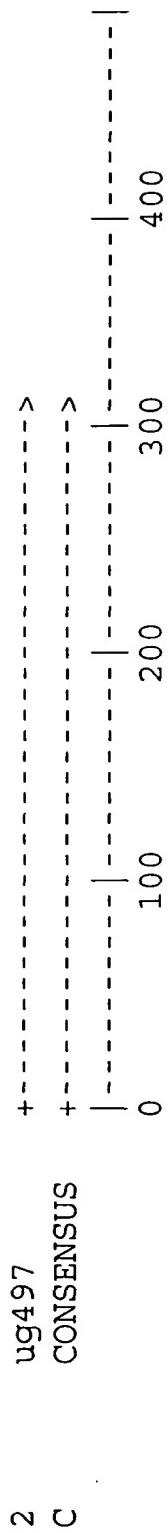


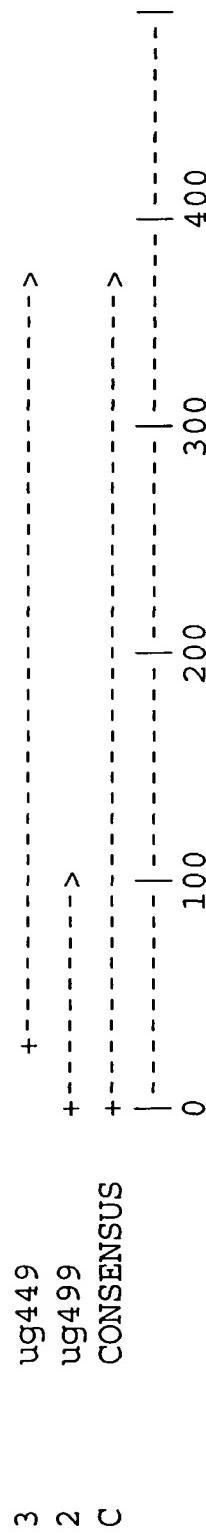
Fig. 8 - 127 of 180

395/472

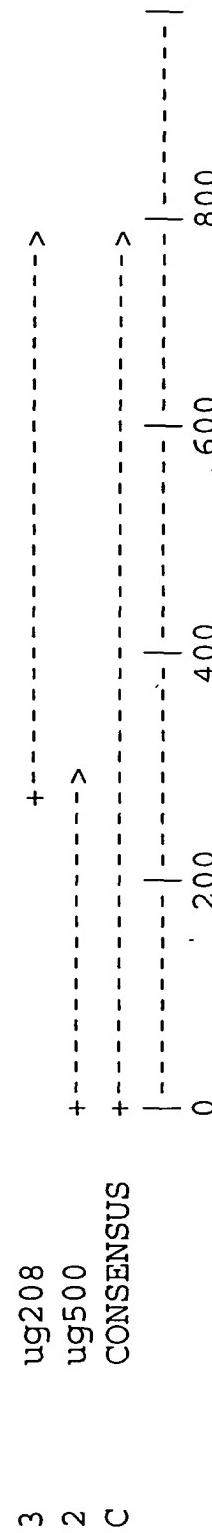
Contig: ug497



Contig: ug499



Contig: ug500



Contig: ug501



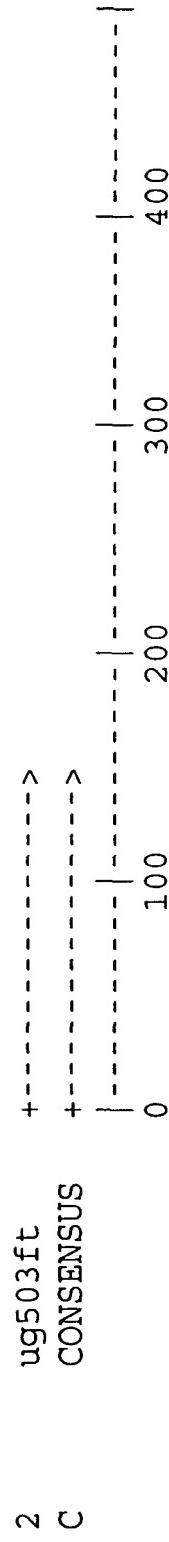
Fig. 8 - 128 of 180

396/472

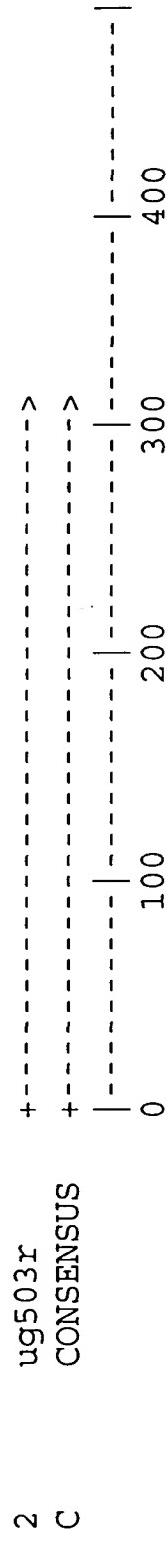
Contig: ug502



Contig: ug503ft



Contig: ug503r



Contig: ug503s

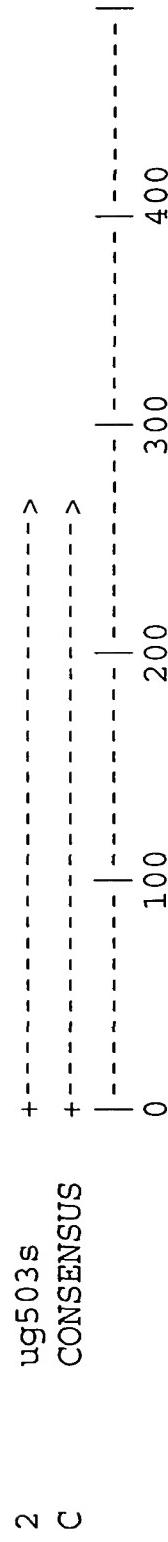
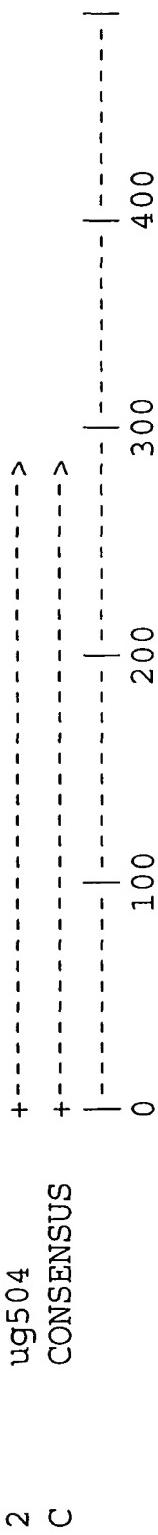


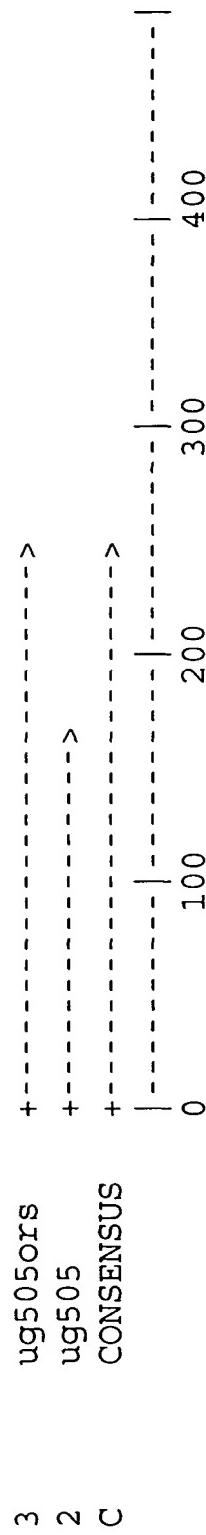
Fig. 8 - 129 of 180

397/472

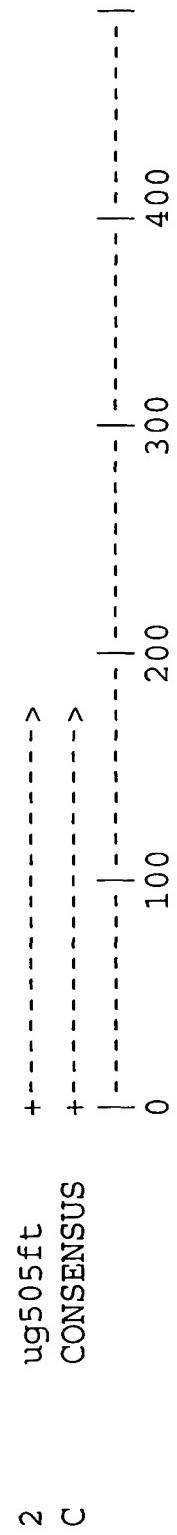
Contig: ug504



Contig: ug505



Contig: ug505ft



Contig: ug506

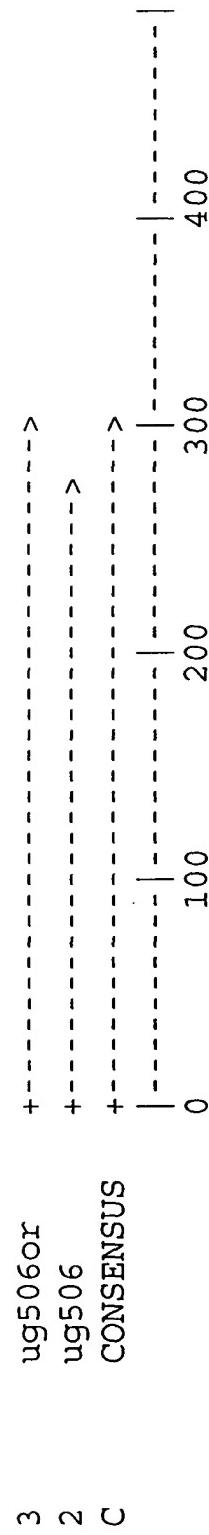


Fig. 8 - 130 of 180

398/472

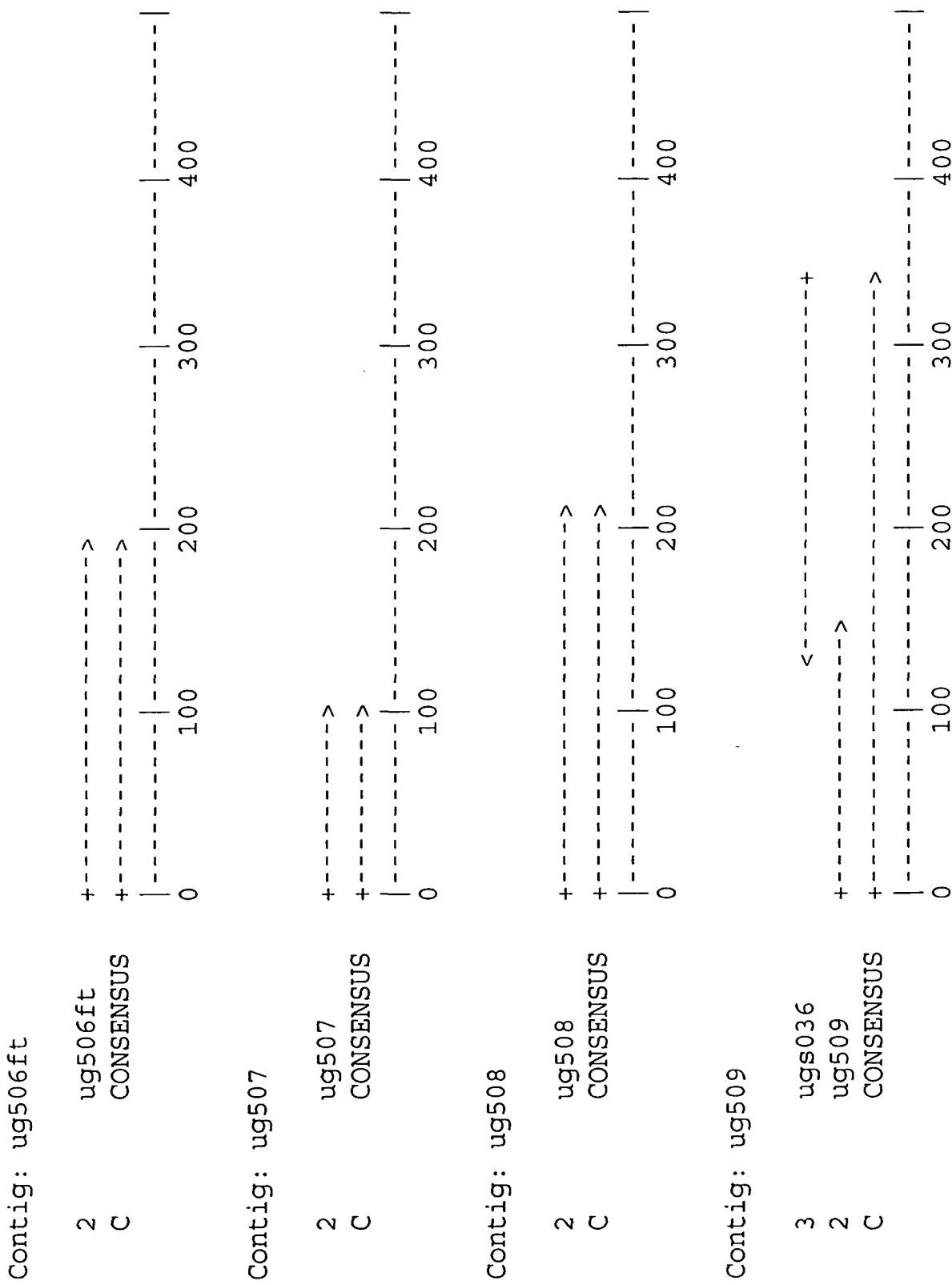
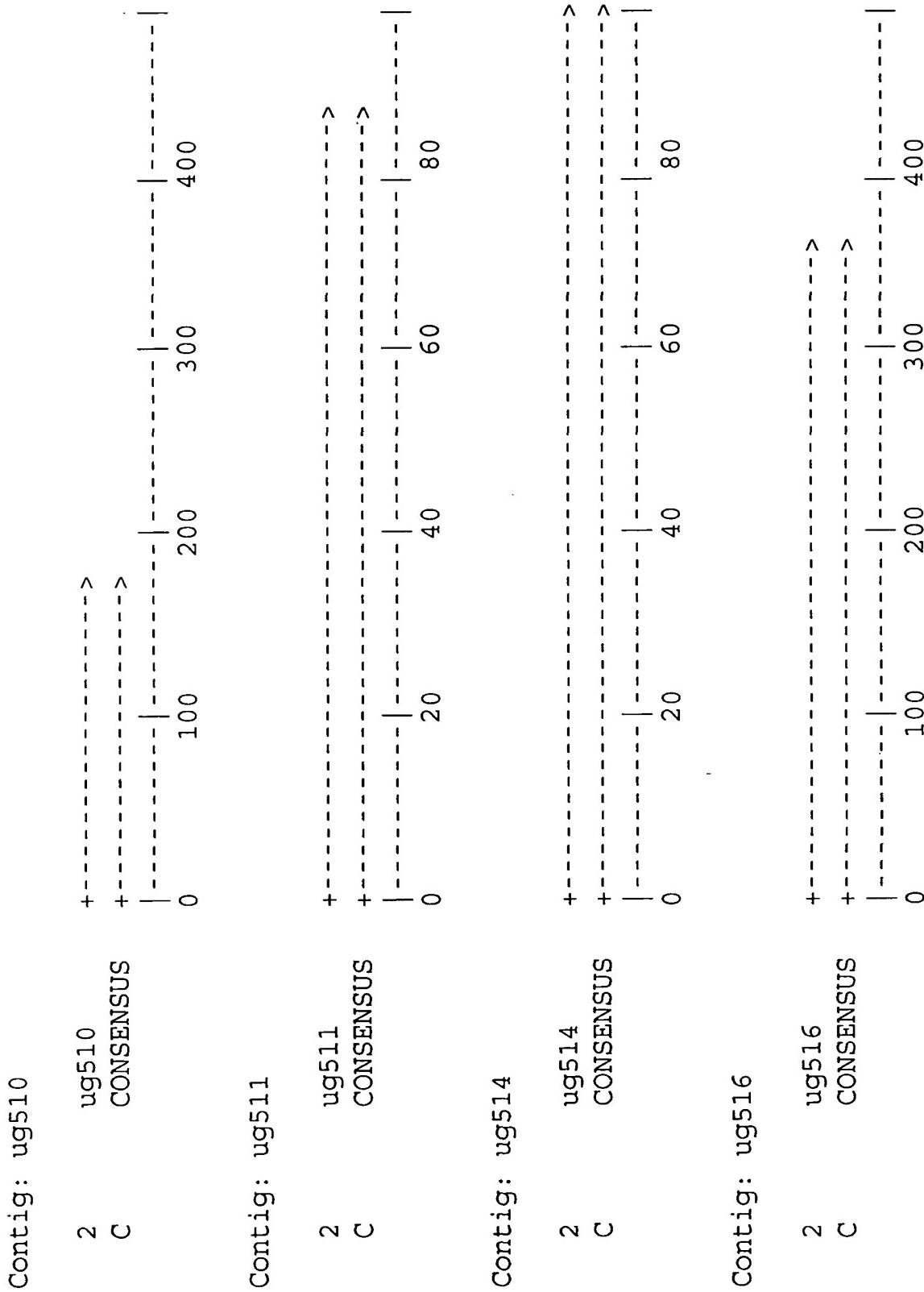


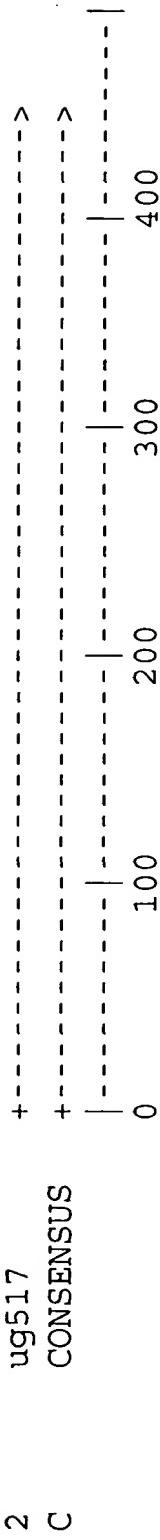
Fig. 8 - 131 of 180

399/472



400/472

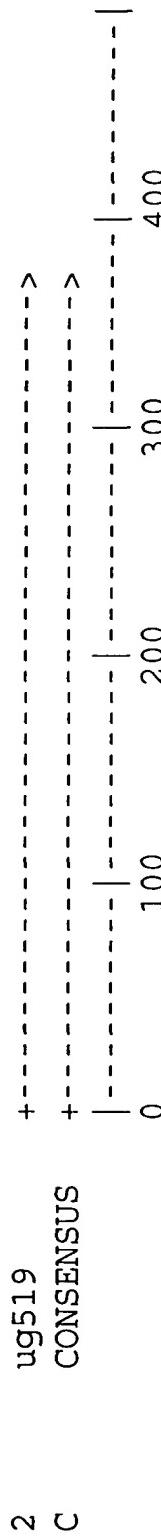
Contig: ug517



Contig: ug518



Contig: ug519



Contig: ug520

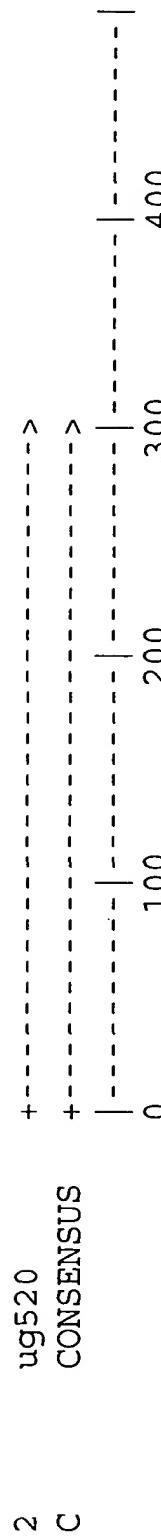
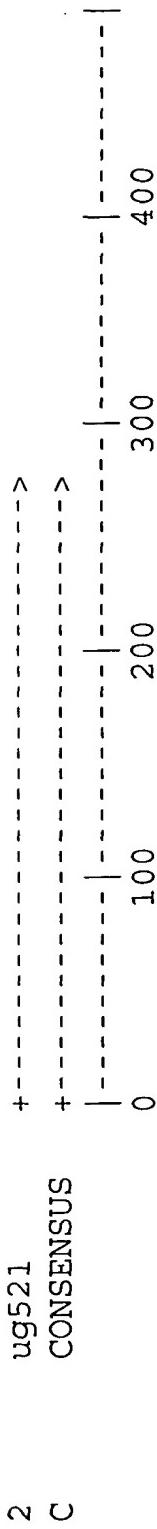


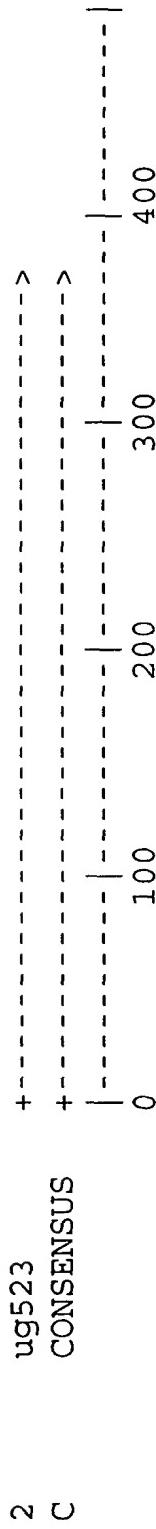
Fig. 8 - 133 of 180

401/472

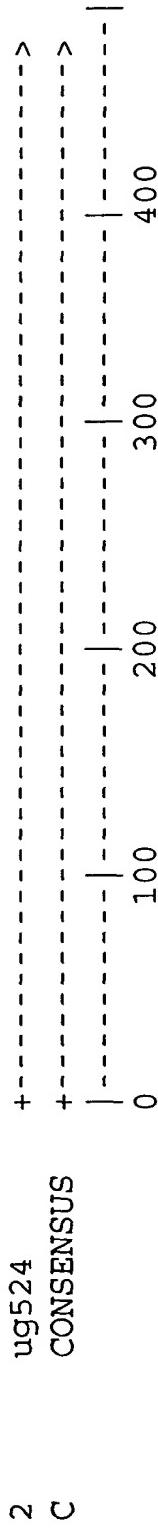
Contig: ug521



Contig: ug523



Contig: ug524



Contig: ug525

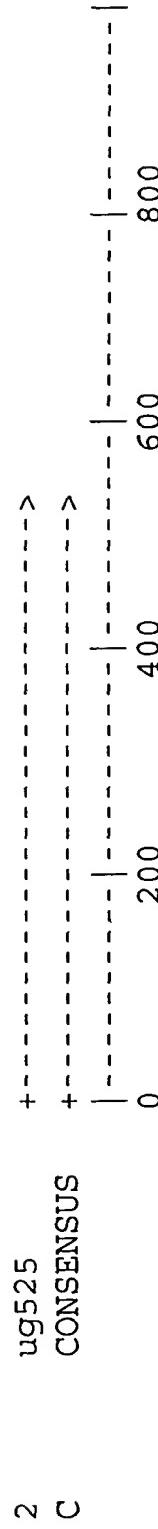


Fig. 8 - 134 of 180

402/472

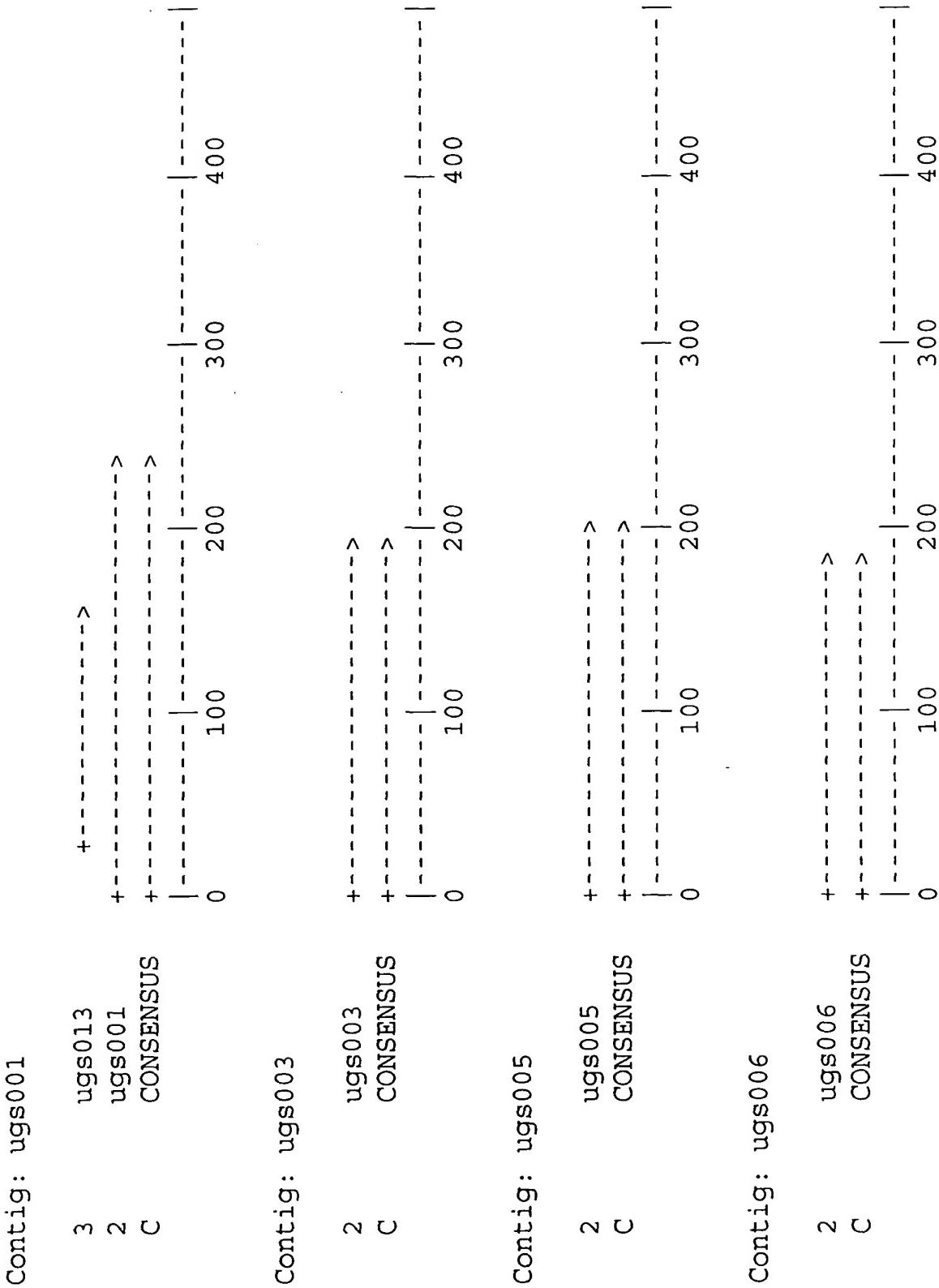


Fig. 8 - 135 of 180

403/472

Contig: ugs007



Contig: ugs008



Contig: ugs009



Contig: ugs010

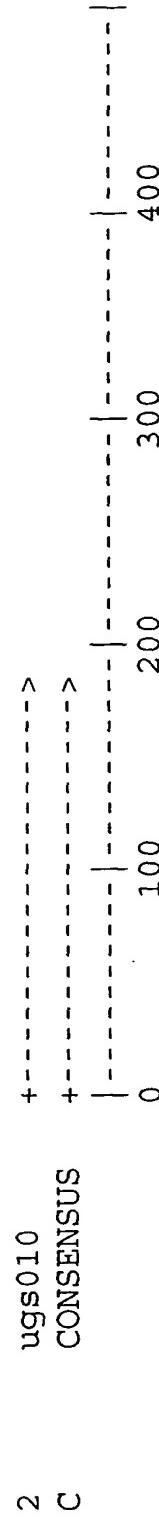


Fig. 8 - 136 of 180

404/472

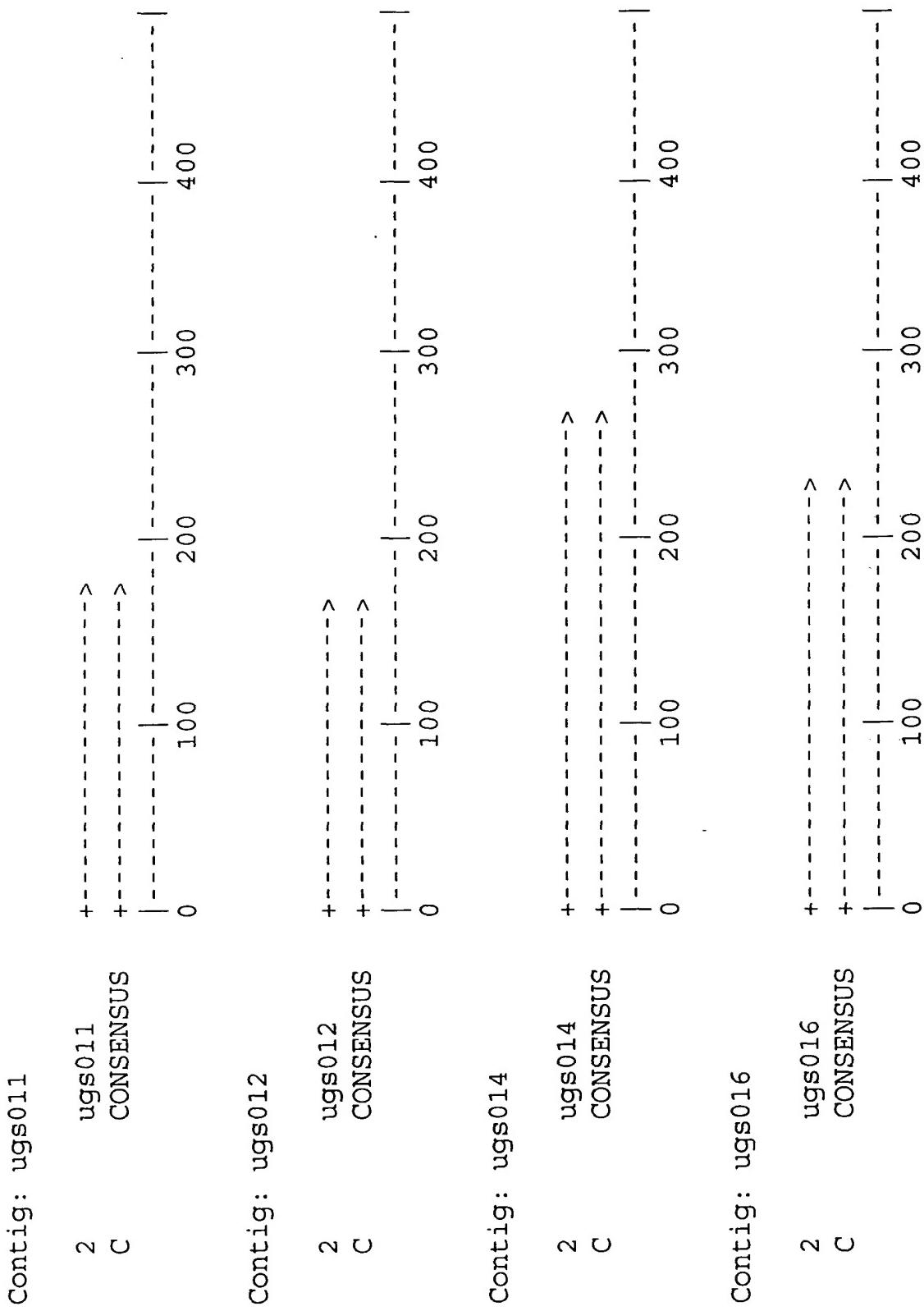
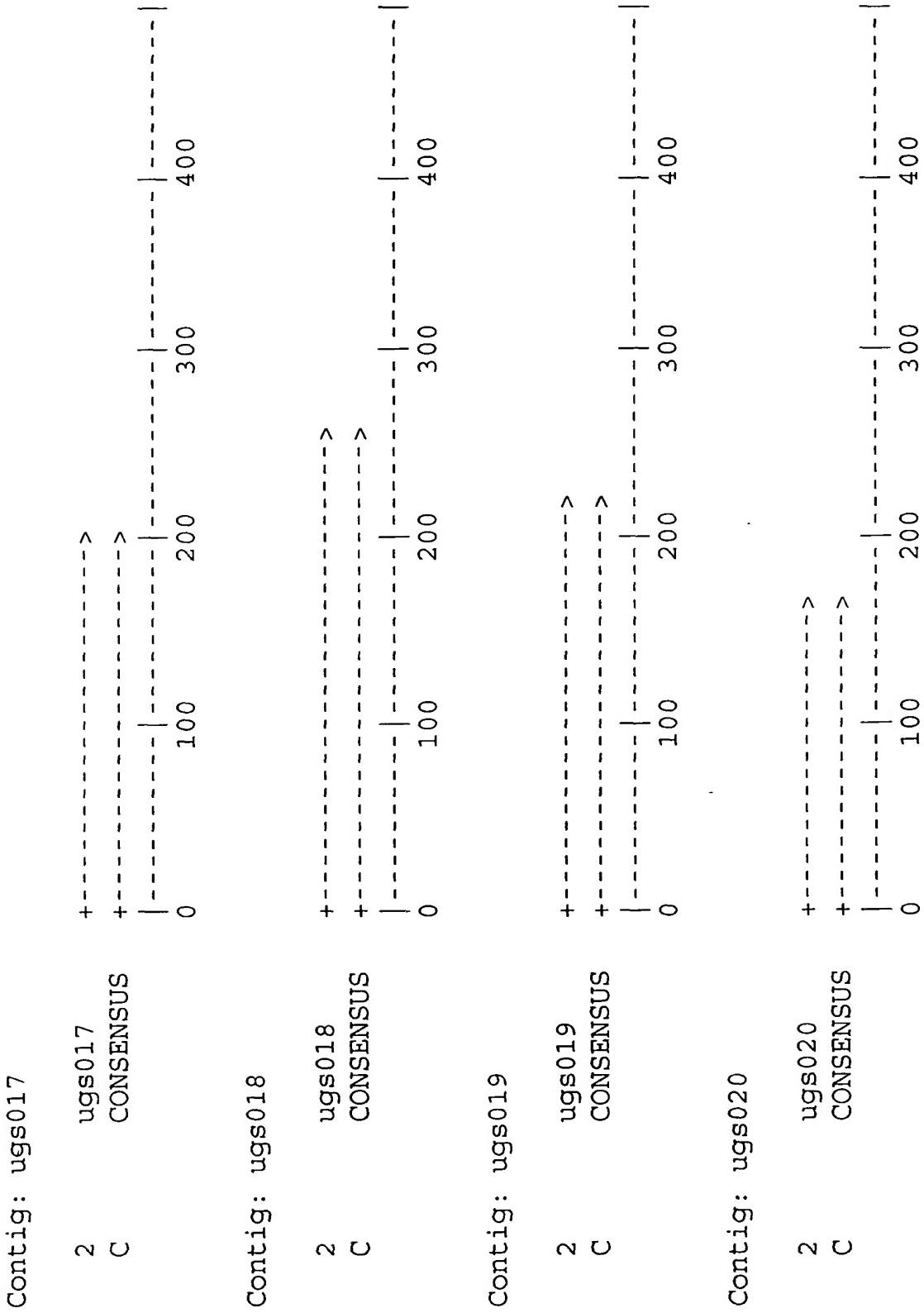


Fig. 8 - 137 of 180

405/472



406/472

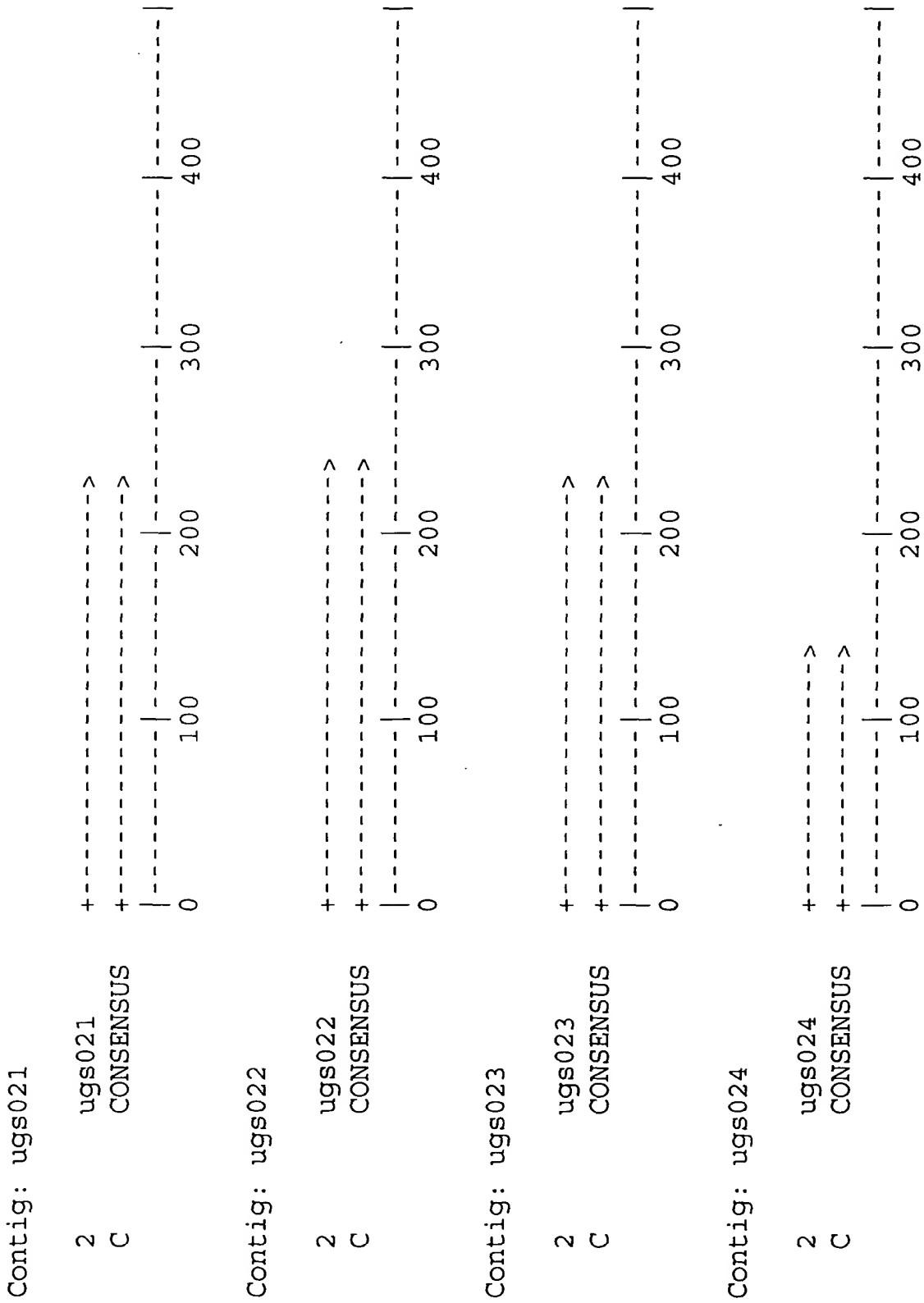


Fig. 8 - 139 of 180

407/472

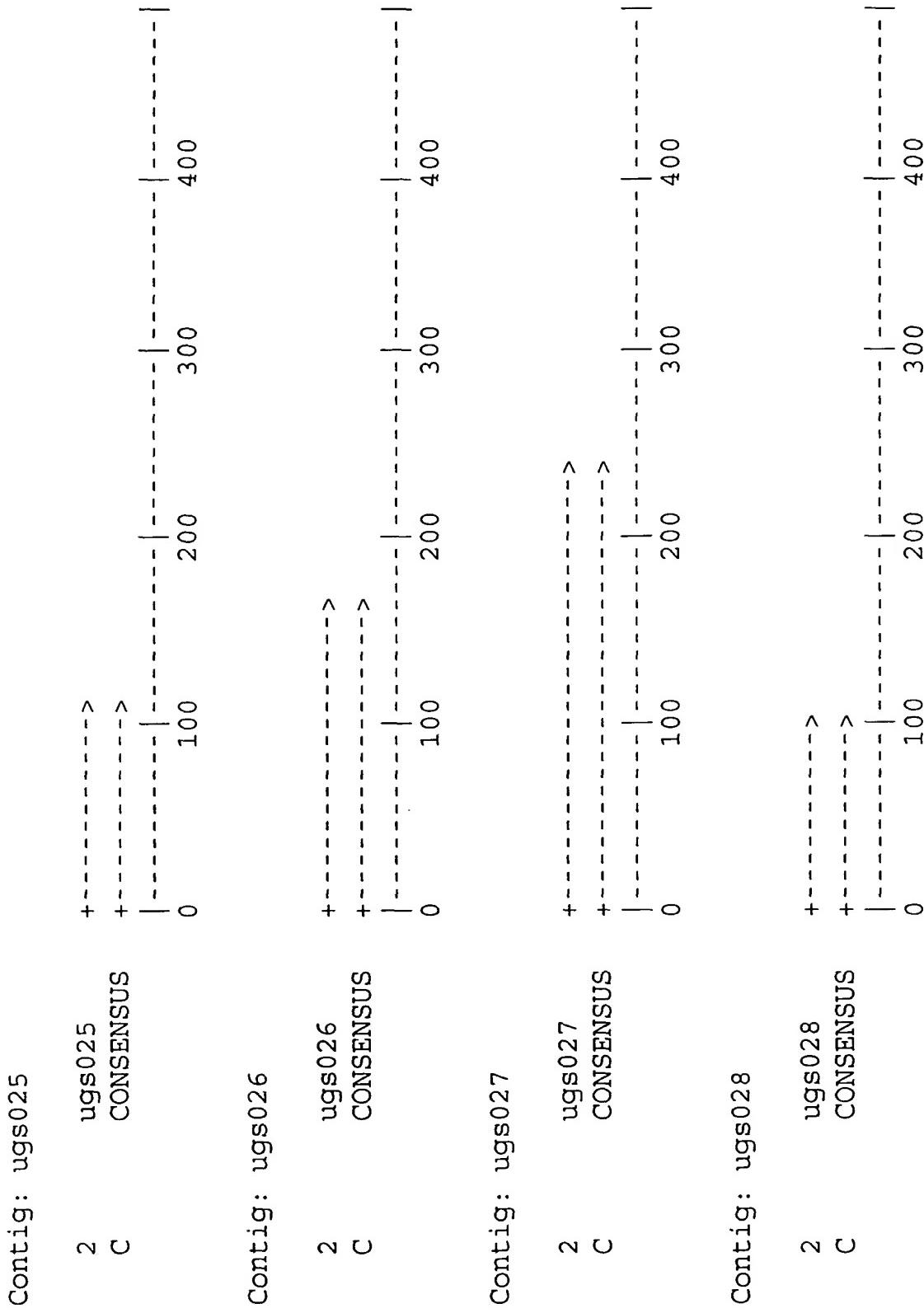
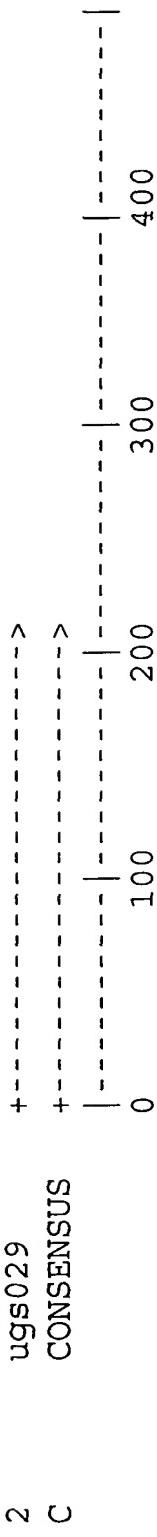


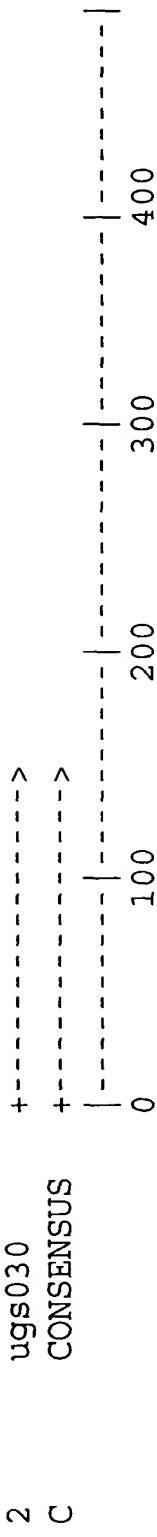
Fig. 8 - 140 of 180

408/472

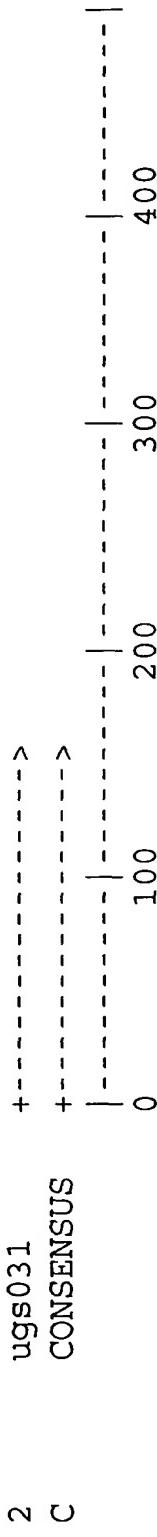
Contig: ugs029



Contig: ugs030



Contig: ugs031



Contig: ugs032

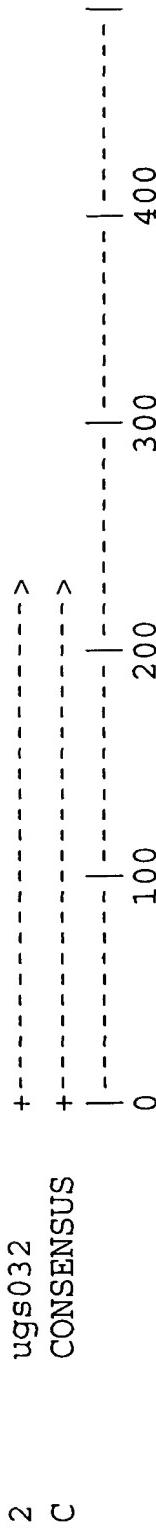


Fig. 8 - 141 of 180

409/472

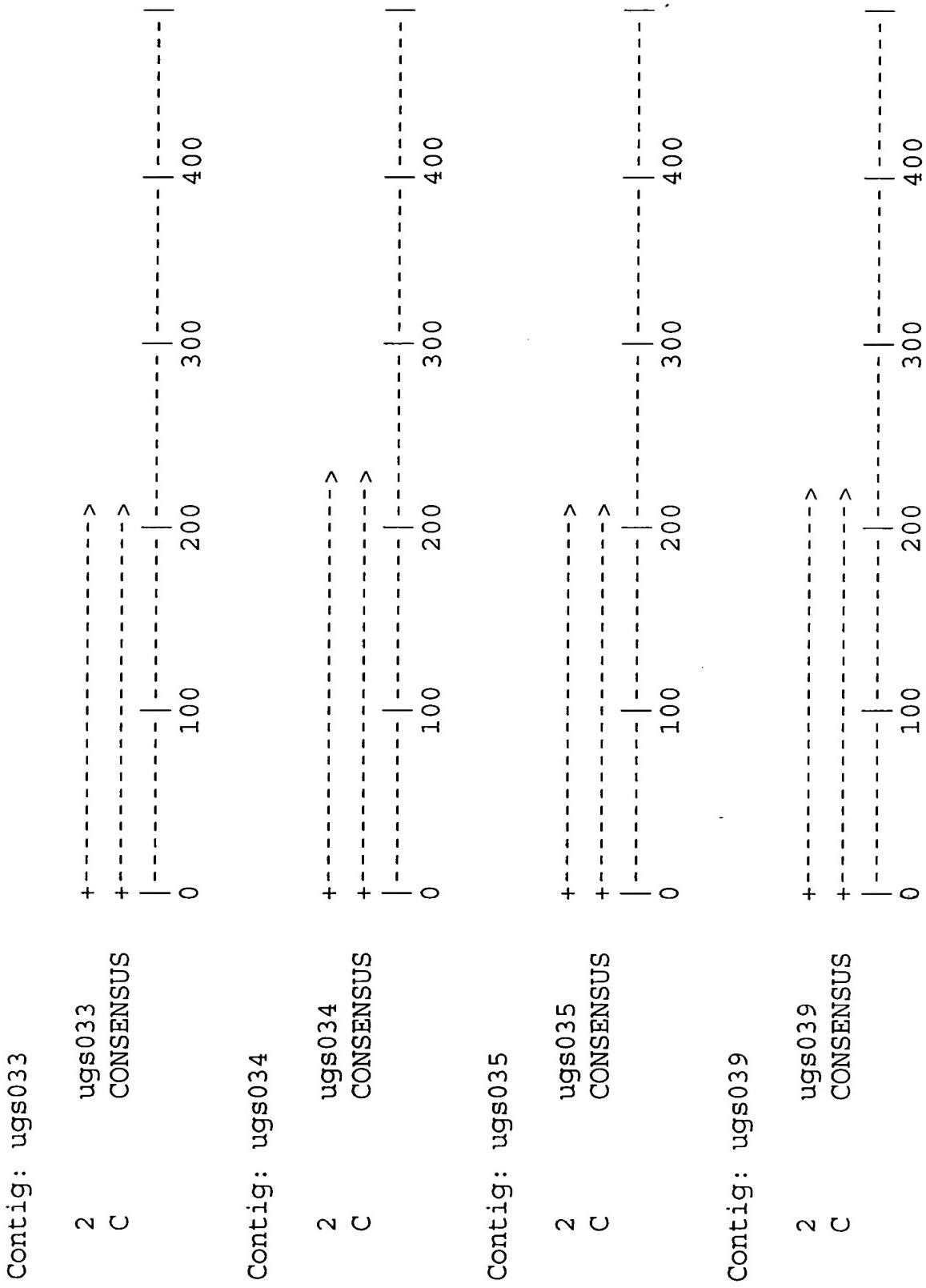
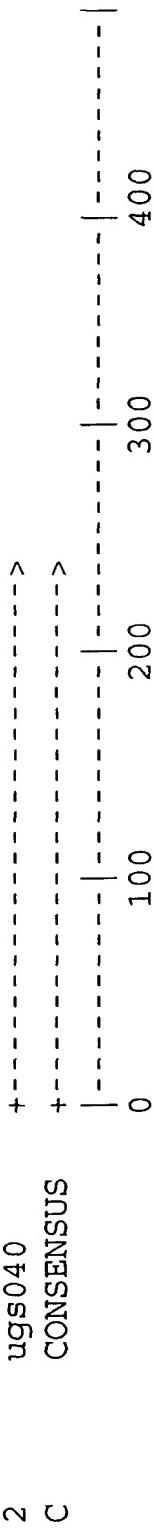


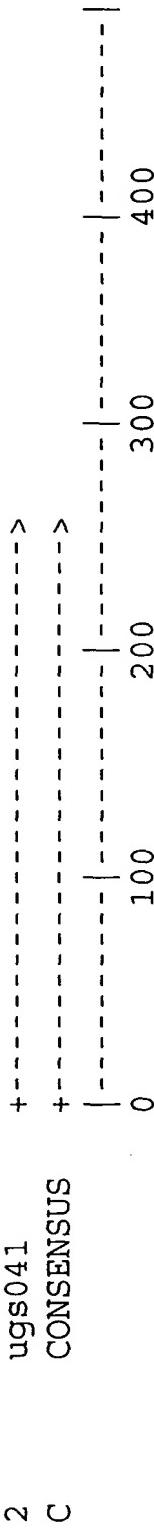
Fig. 8 - 142 of 180

410/472

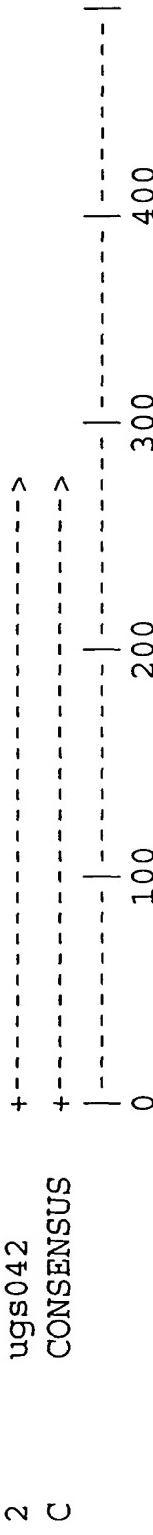
Contig: ugs040



Contig: ugs041



Contig: ugs042



Contig: ugs043

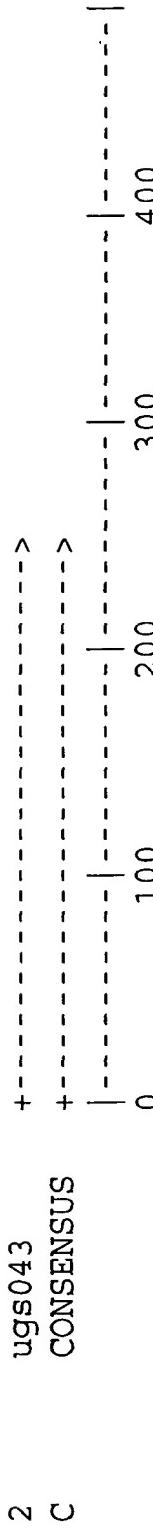


Fig. 8 - 143 of 180

411/472

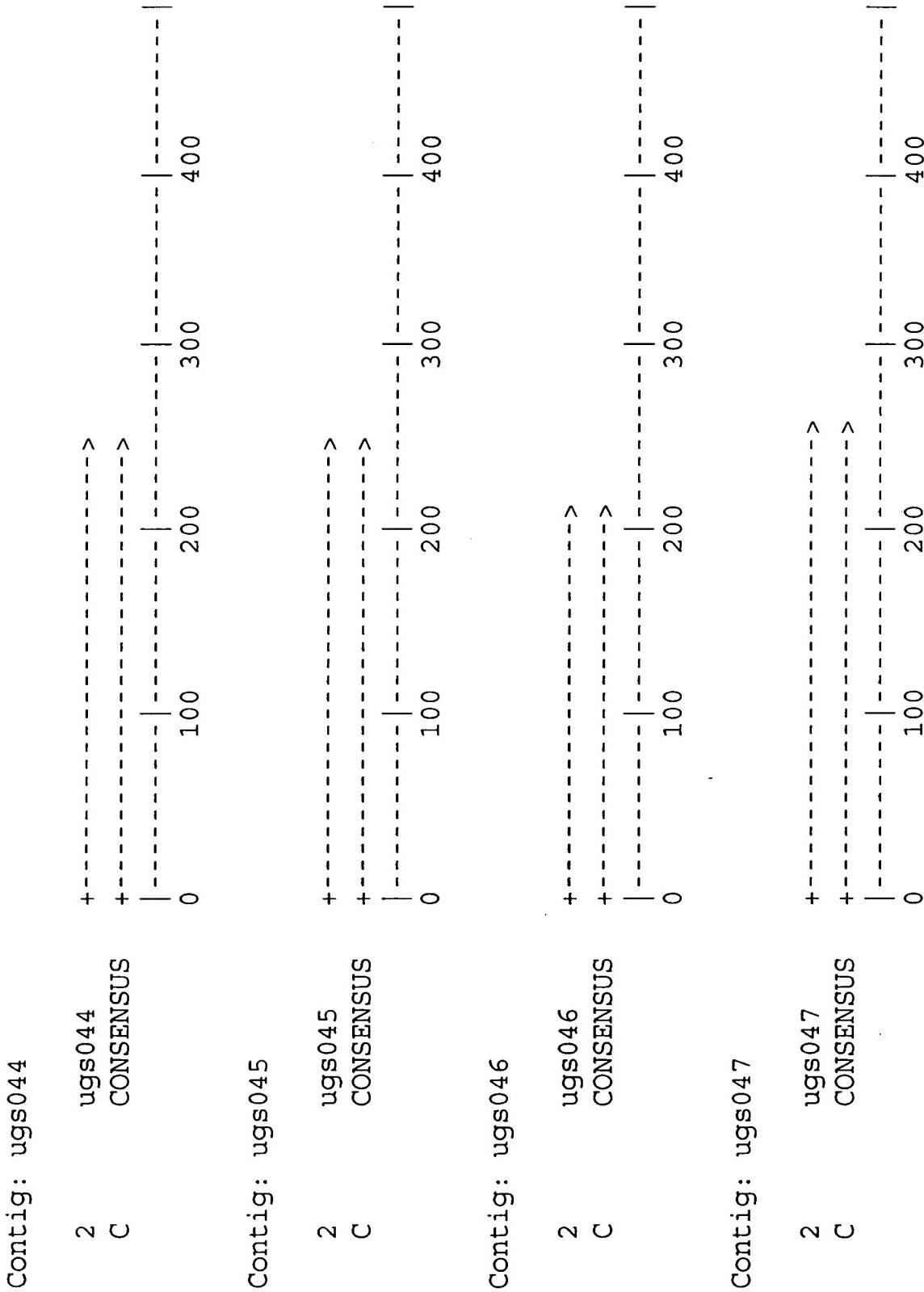


Fig. 8 - 144 of 180

412/472

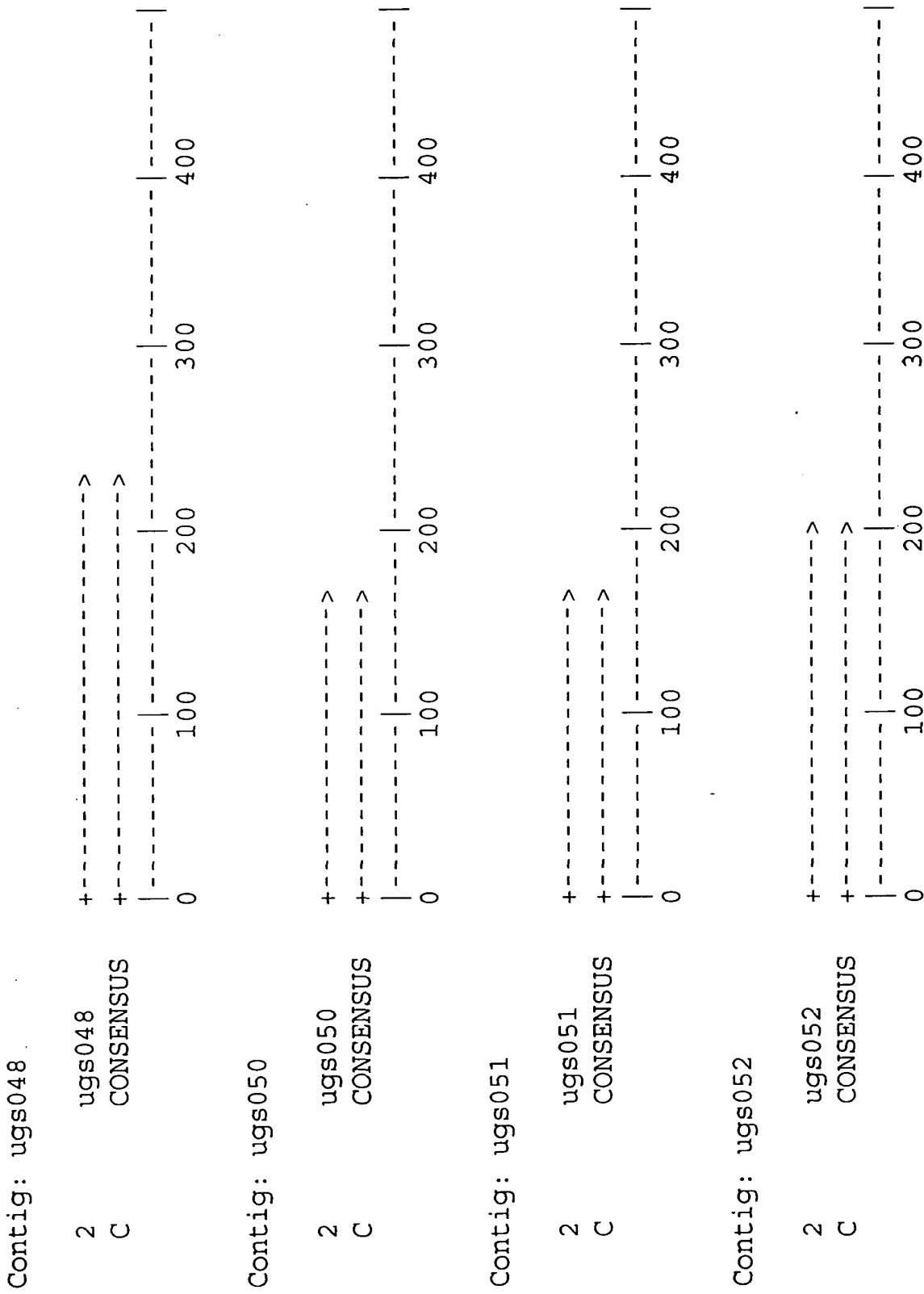
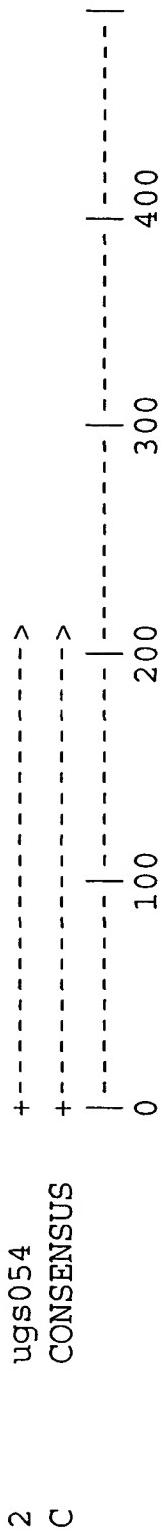


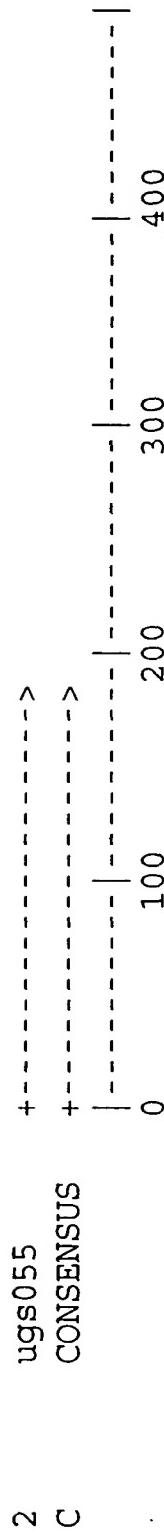
Fig. 8 - 145 of 180

413/472

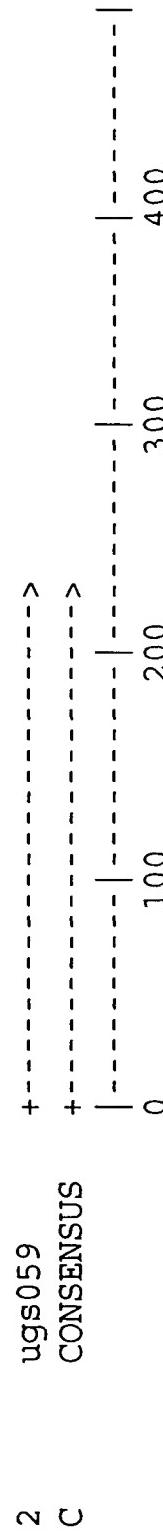
Contig: ugs054



Contig: ugs055



Contig: ugs059



Contig: ugs060



Fig. 8 - 146 of 180

414/472

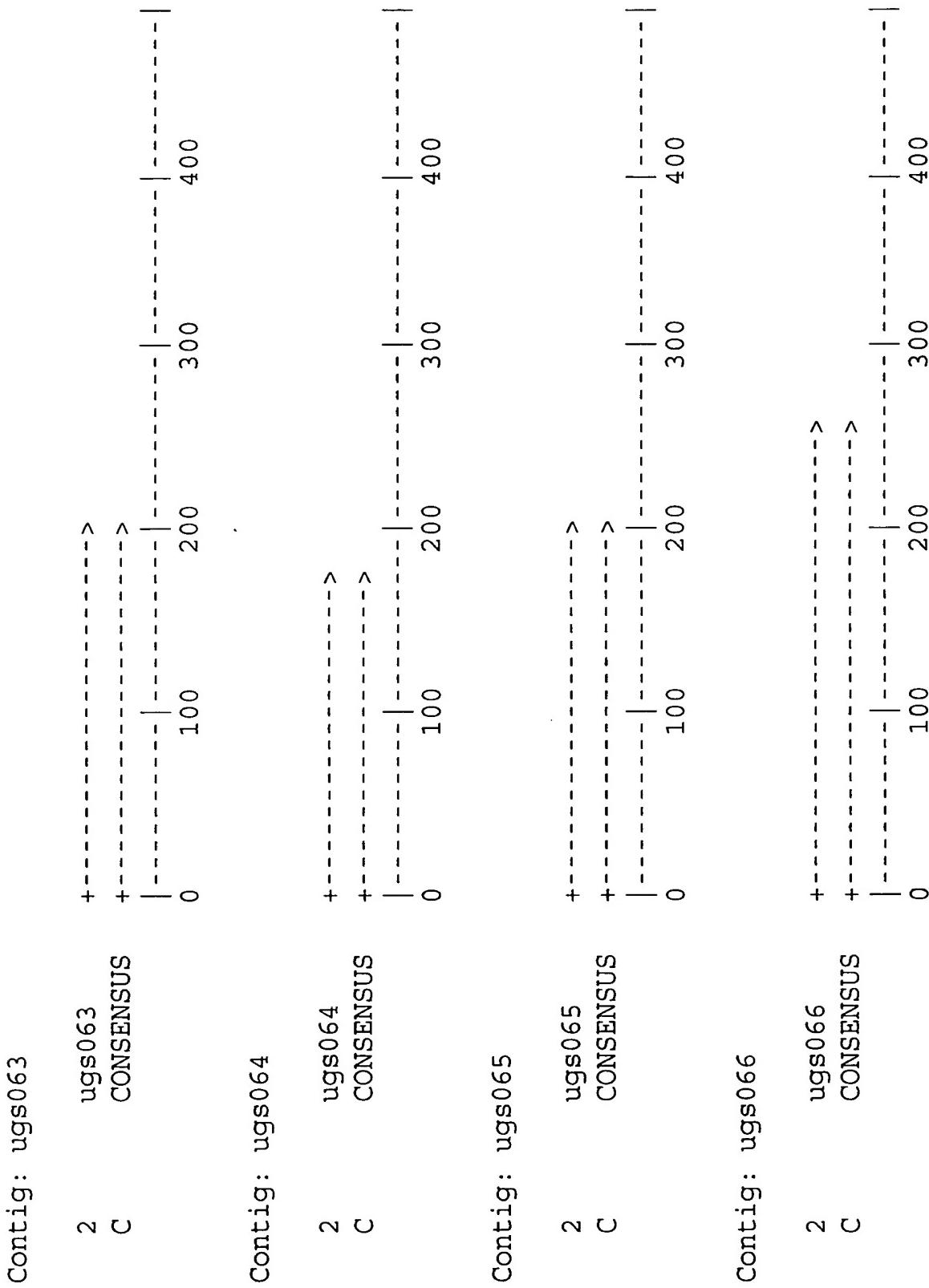


Fig. 8 - 147 of 180

415/472

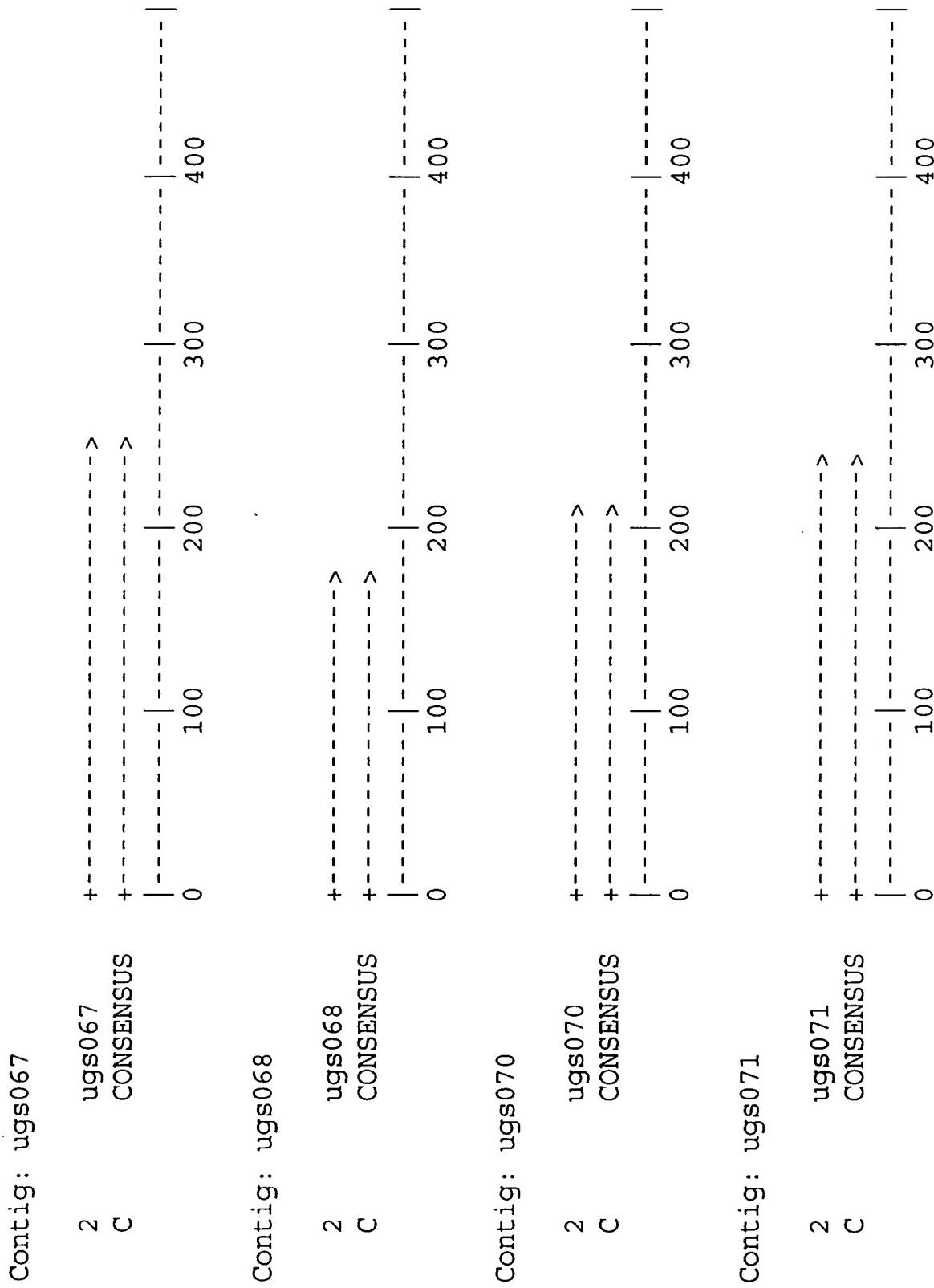
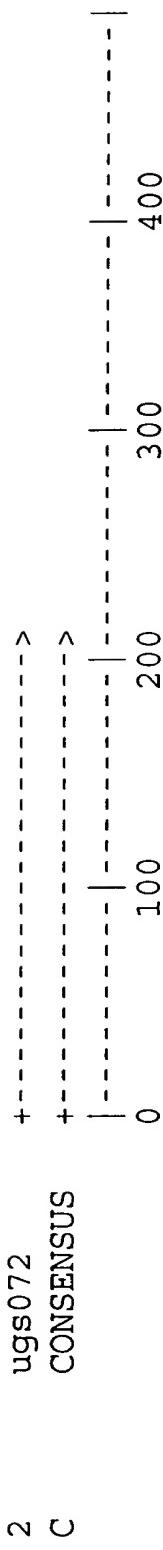


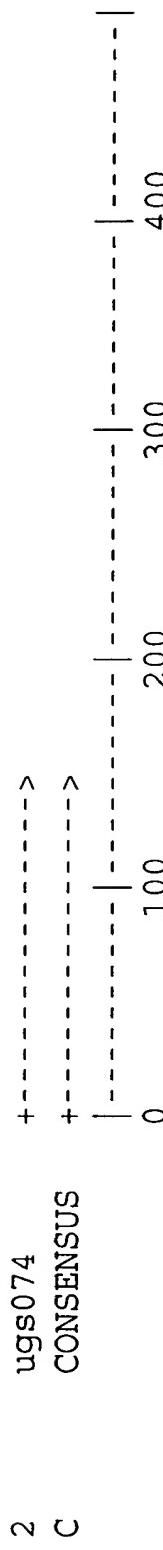
Fig. 8 - 148 of 180

416/472

Contig: ugs072



Contig: ugs074



Contig: ugs077



Contig: ugs078

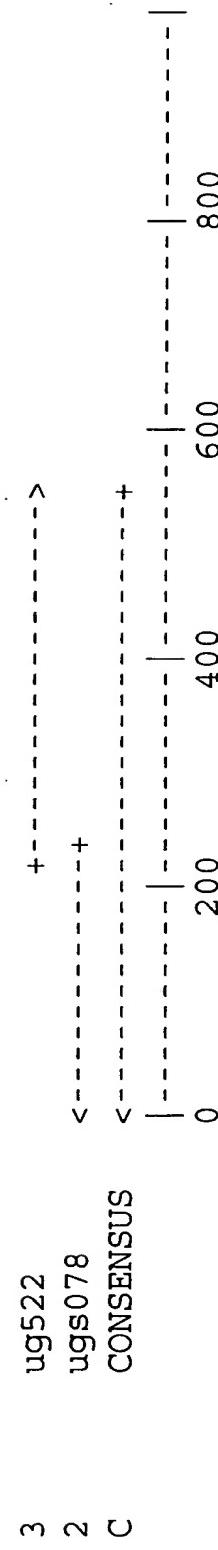


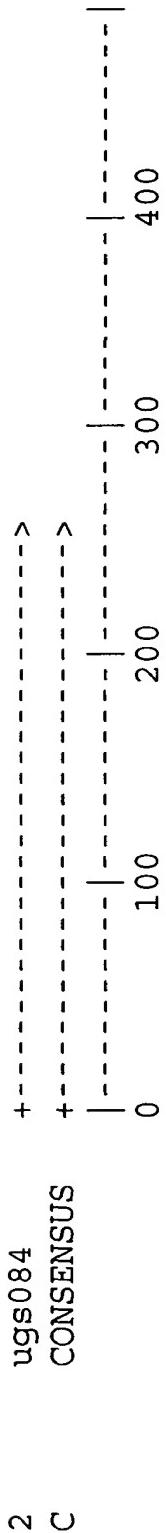
Fig. 8 - 149 of 180

417/472

Contig: ugs080



Contig: ugs084



Contig: ugs085



Contig: ugs086

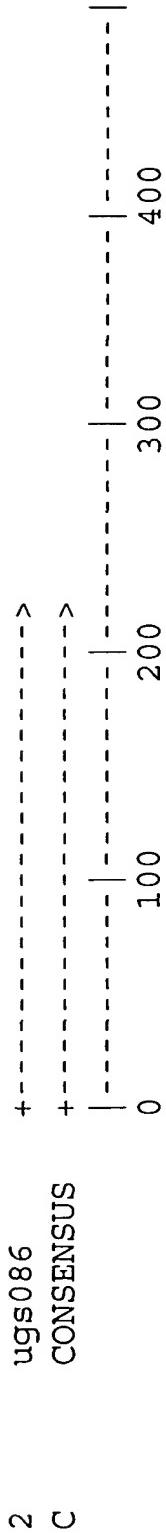
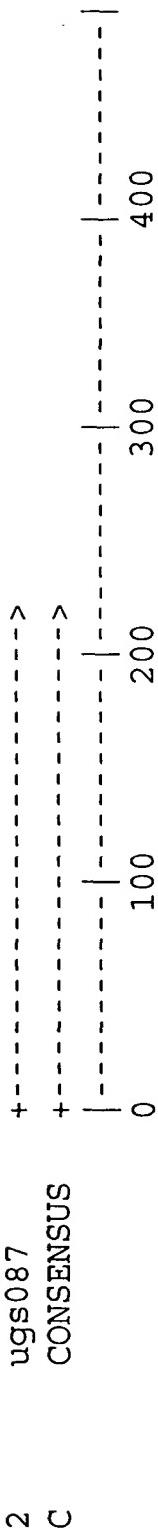


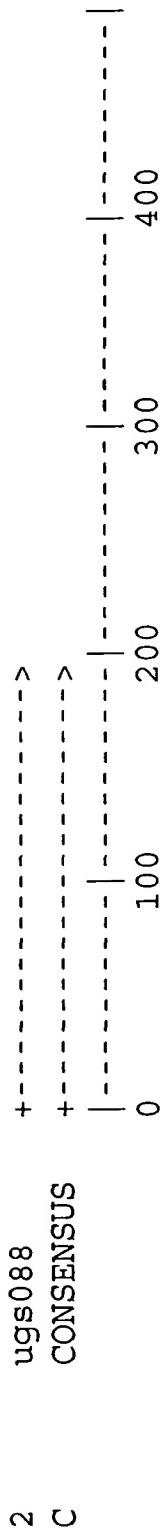
Fig. 8 - 150 of 180

418/472

Contig: ugs087



Contig: ugs088



Contig: ugs090



Contig: ugs091

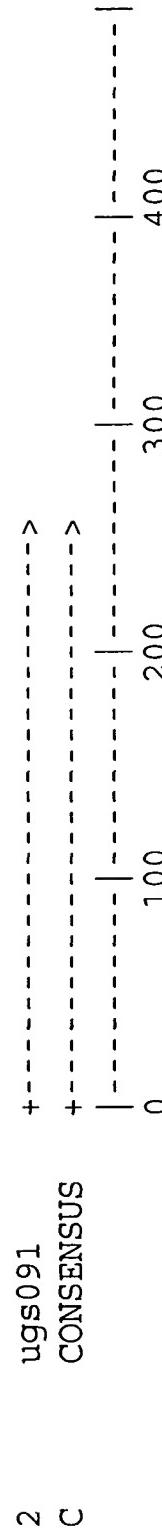


Fig. 8 - 151 of 180

419/472

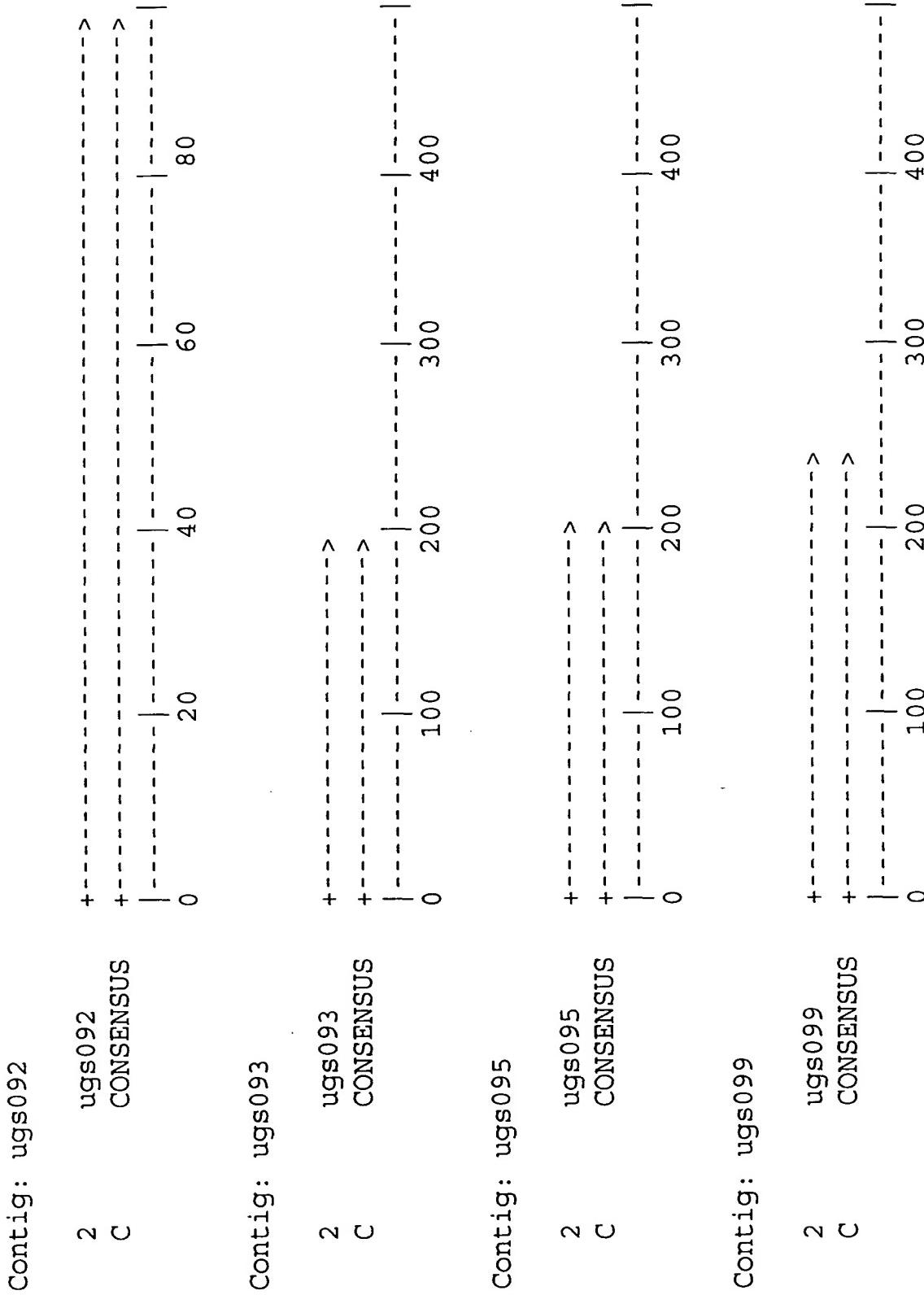


Fig. 8 - 152 of 180

420/472

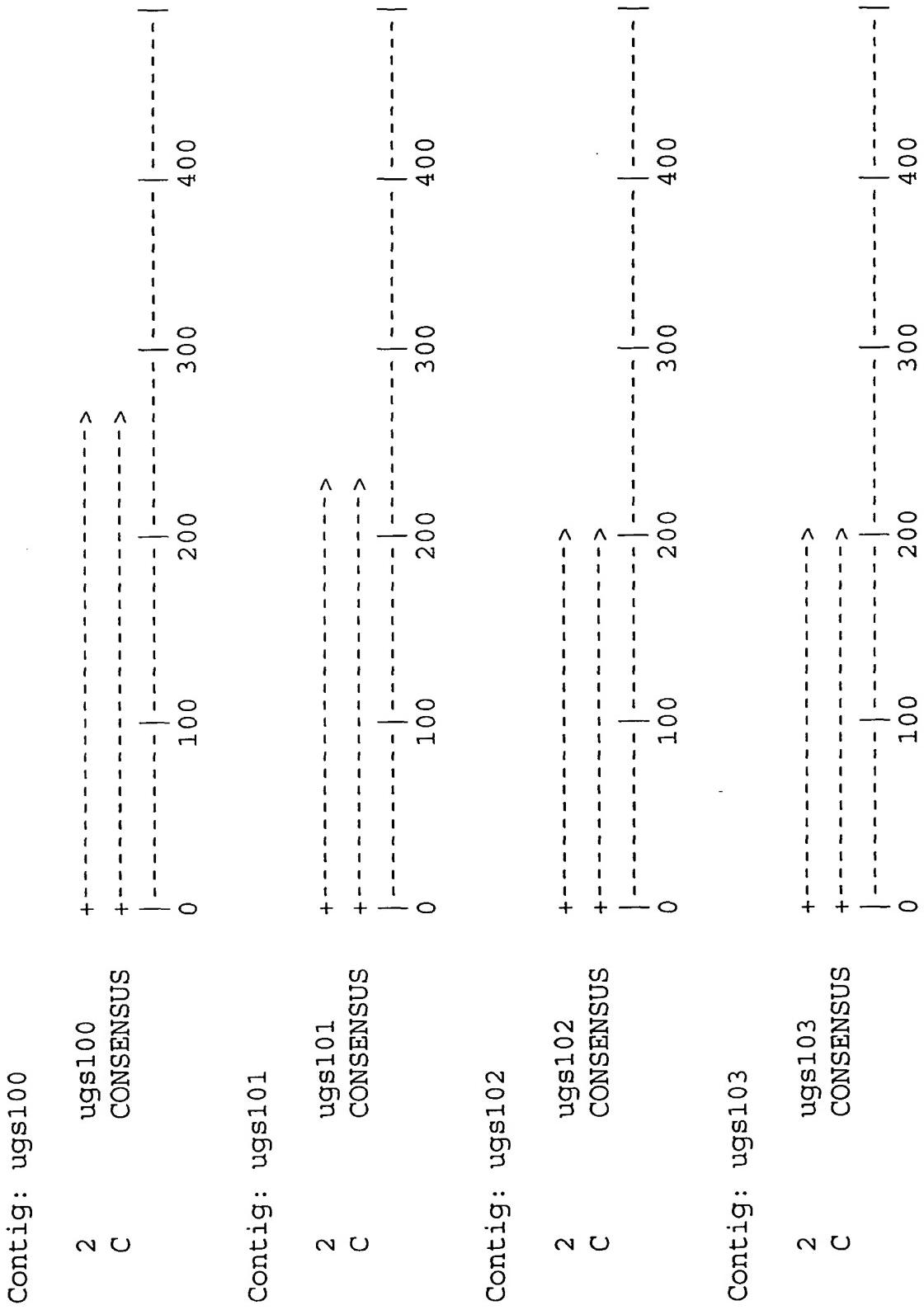


Fig. 8 - 153 of 180

421/472

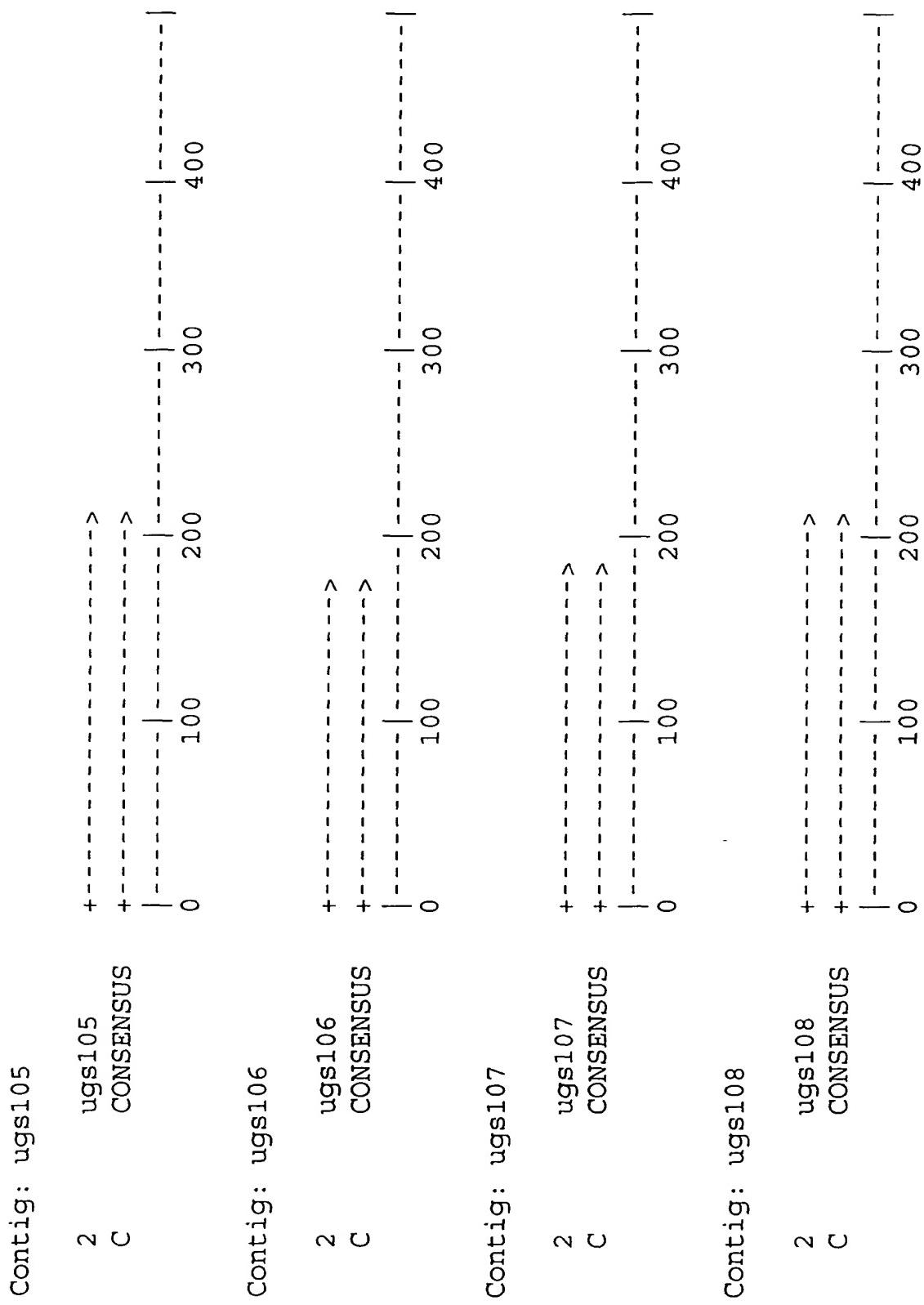
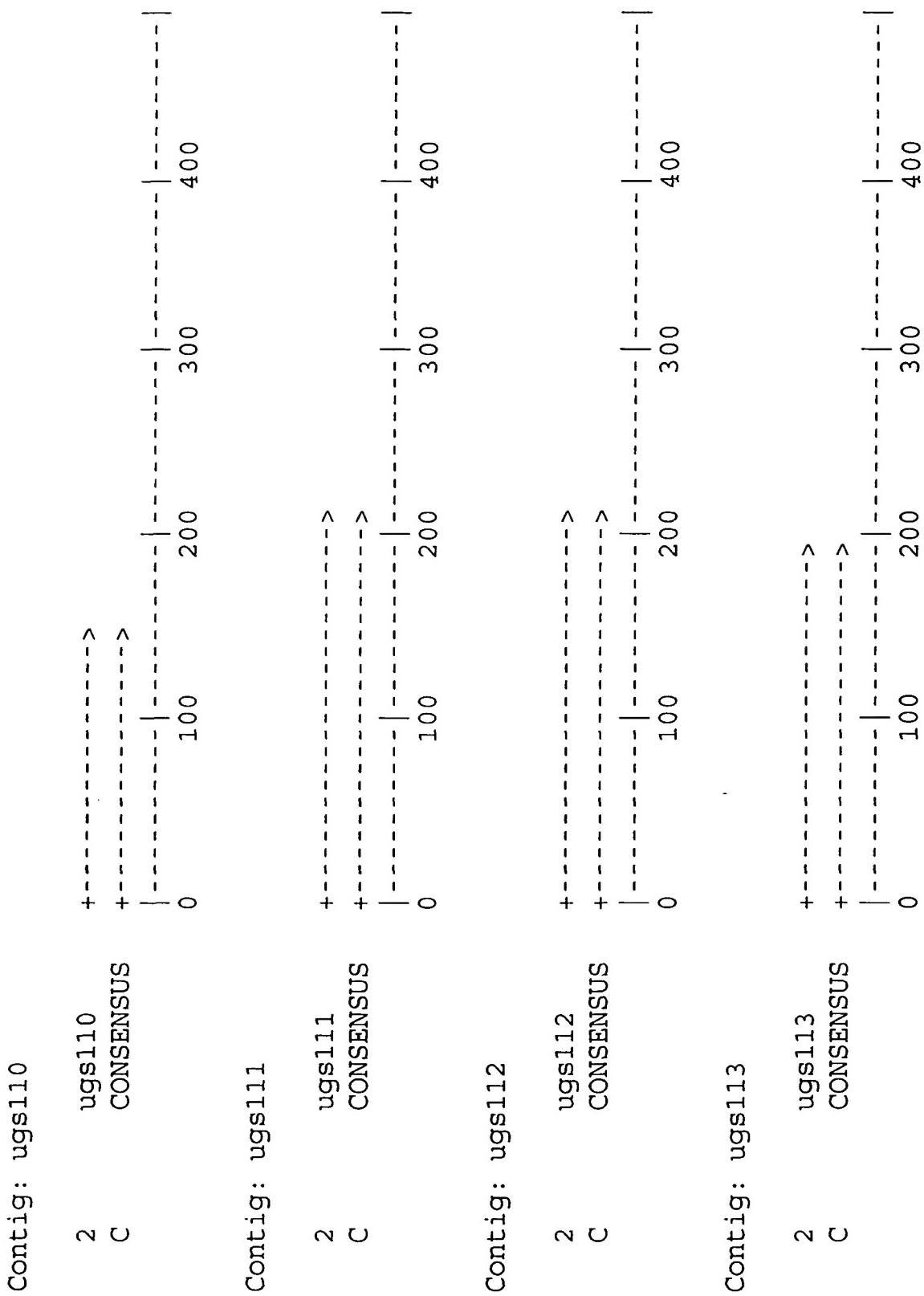


Fig. 8 - 154 of 180

422/472



423/472

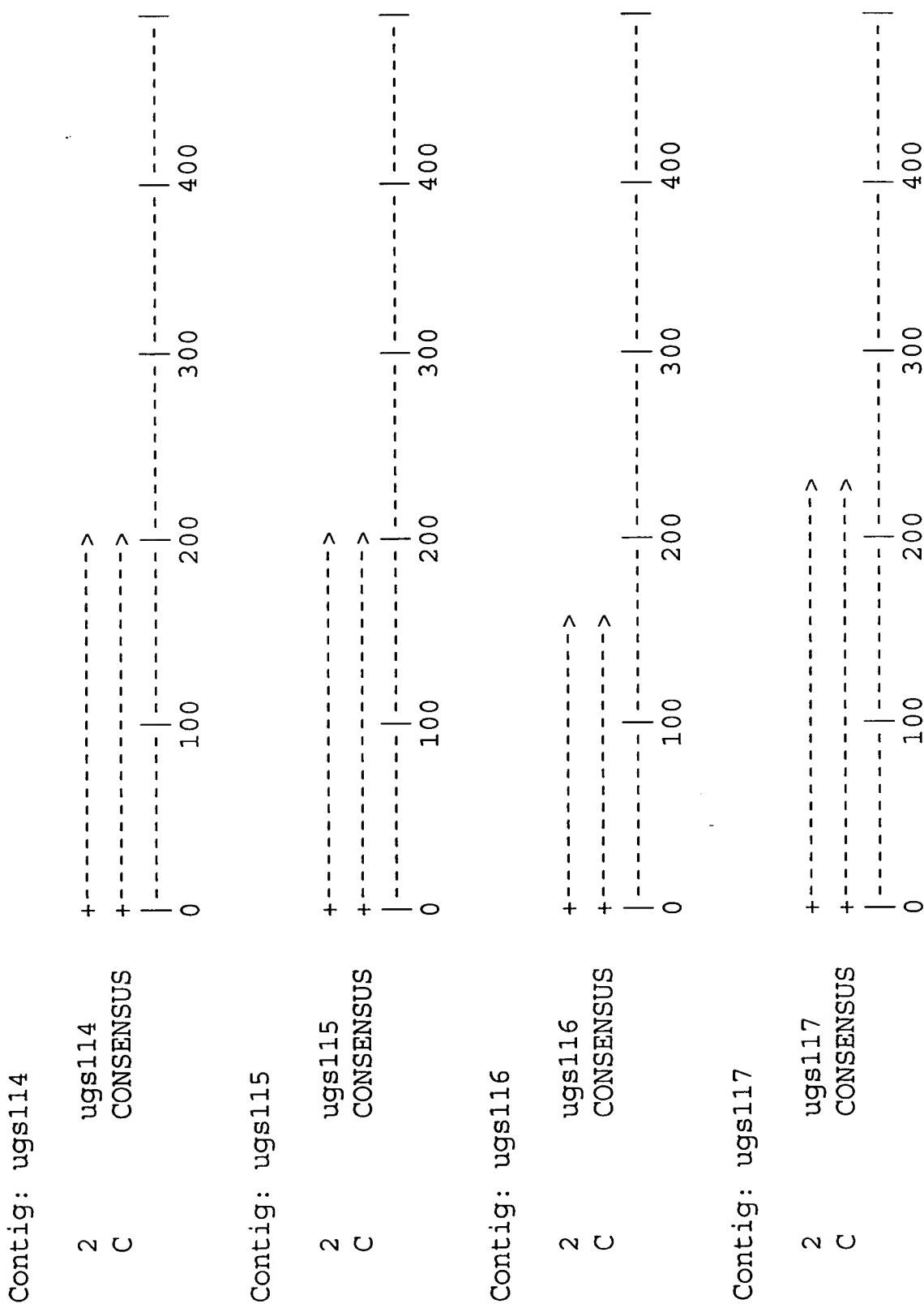


Fig. 8 - 156 of 180

424/472

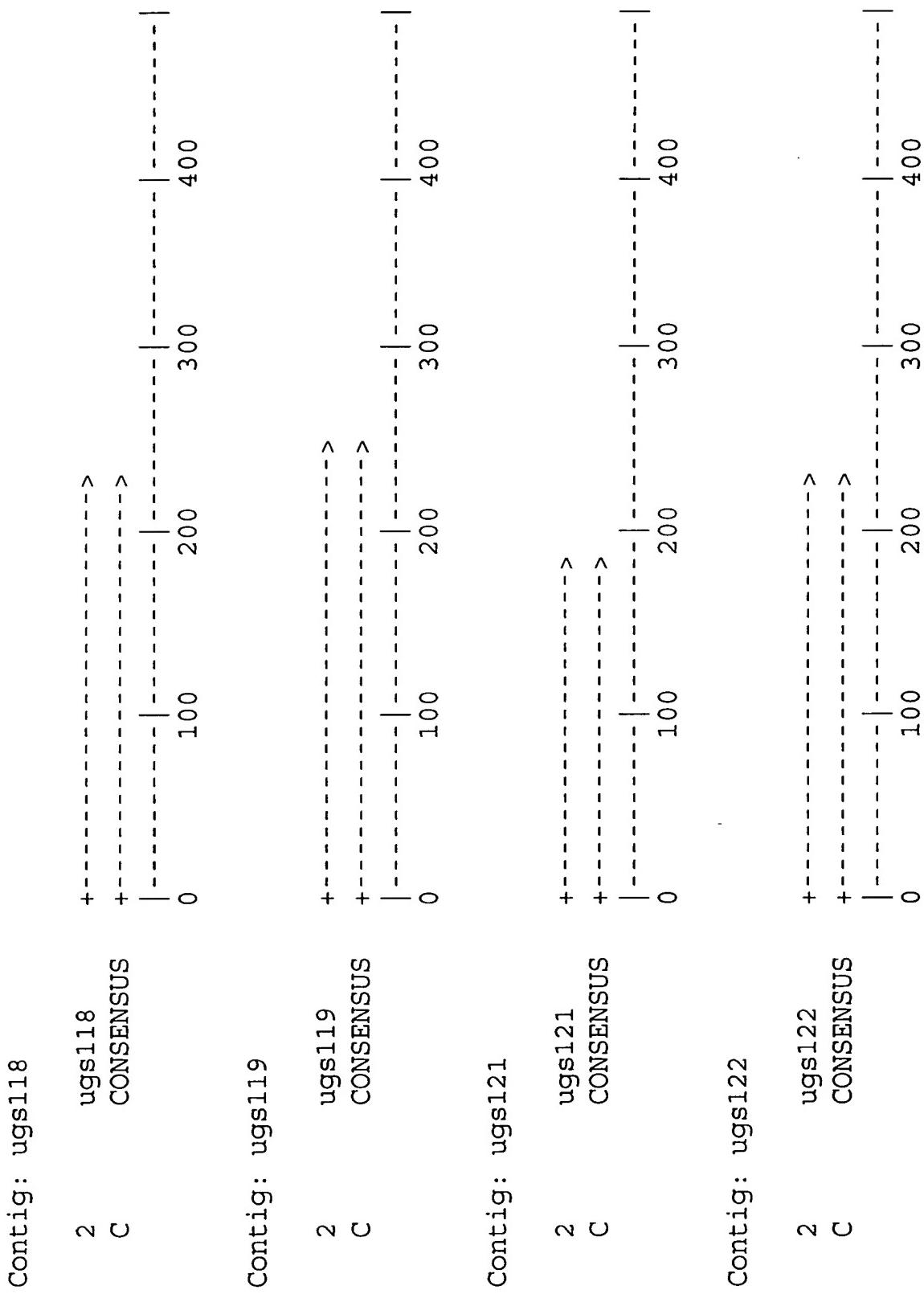


Fig. 8 - 157 of 180

425/472

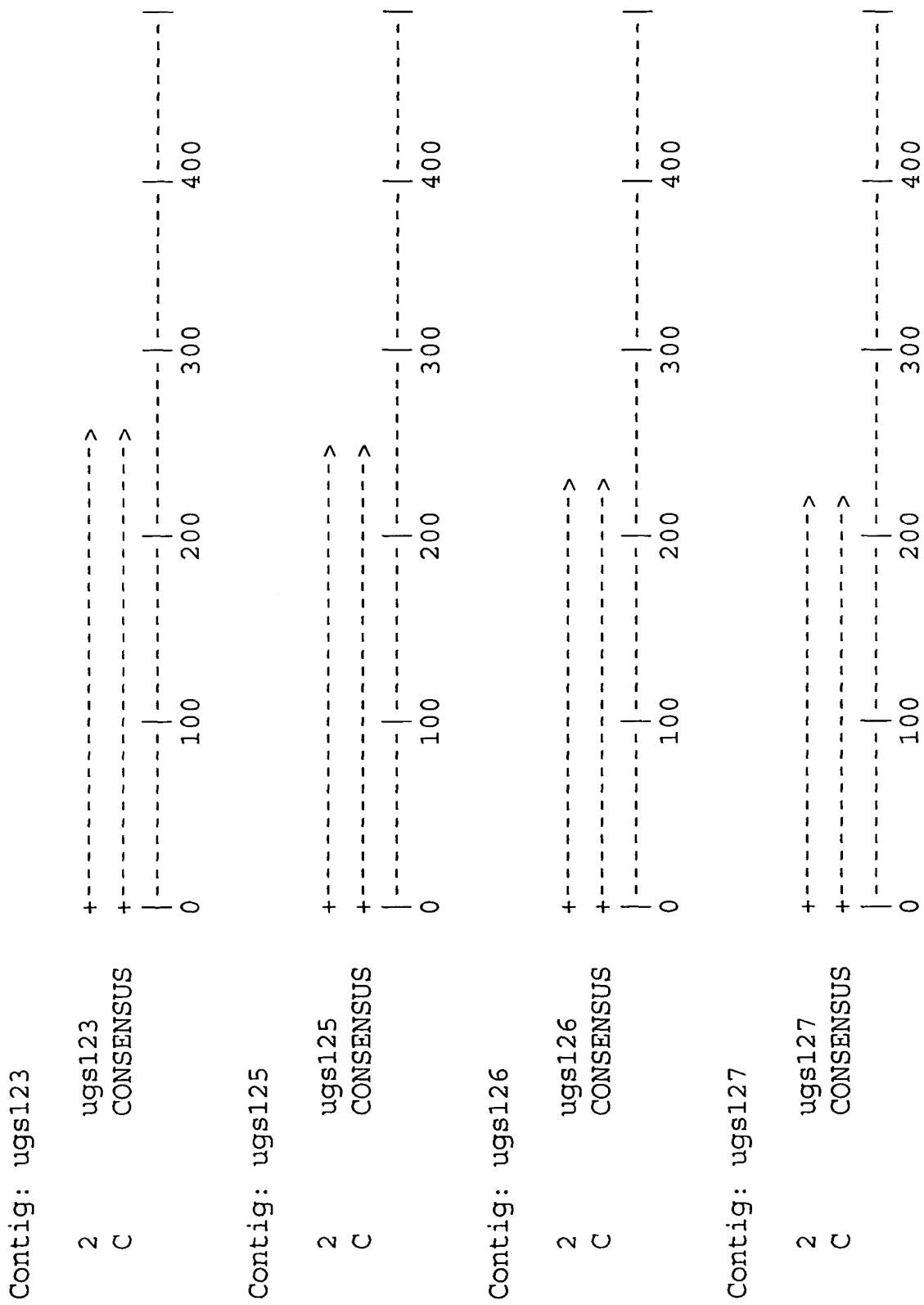


Fig. 8 - 158 of 180

426/472

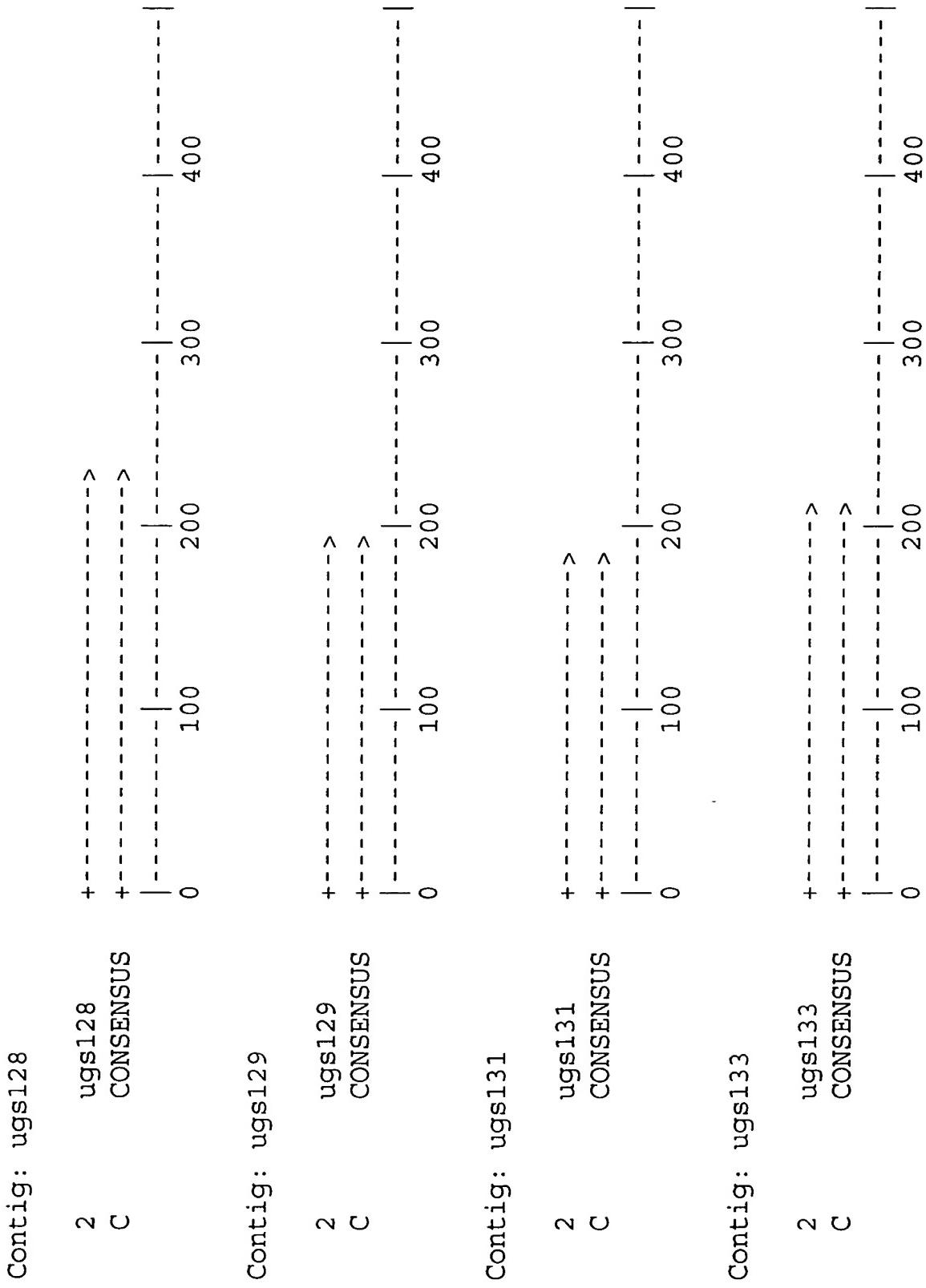
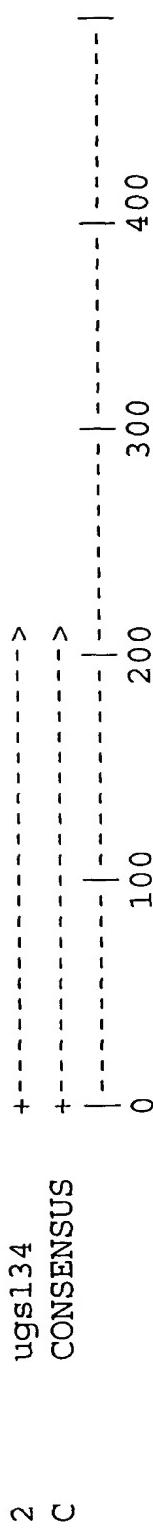


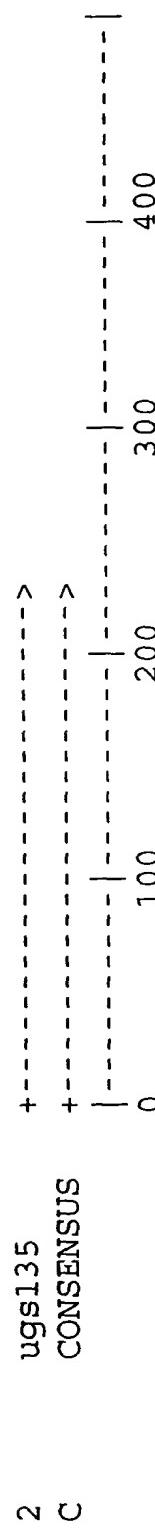
Fig. 8 - 159 of 180

427/472

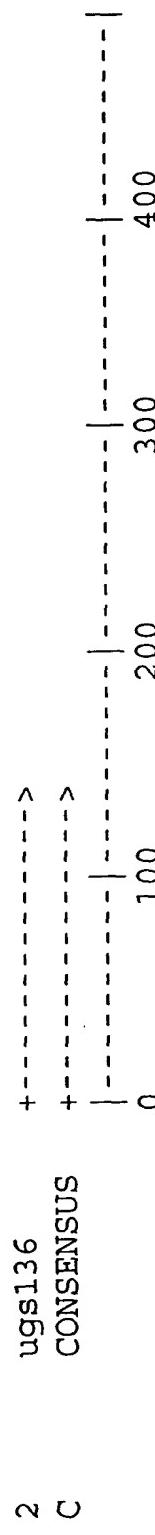
Contig: ugs134



Contig: ugs135



Contig: ugs136



Contig: ugs137

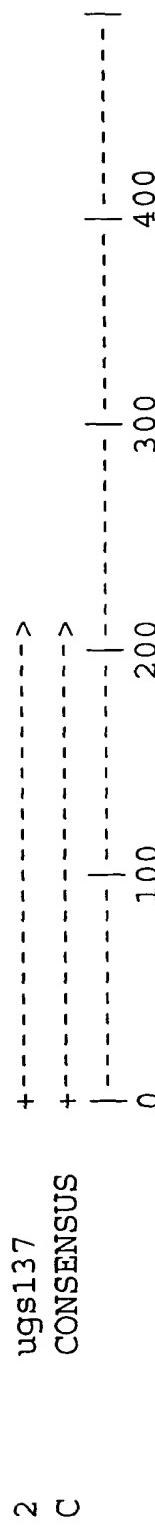


Fig. 8 - 160 of 180

428/472

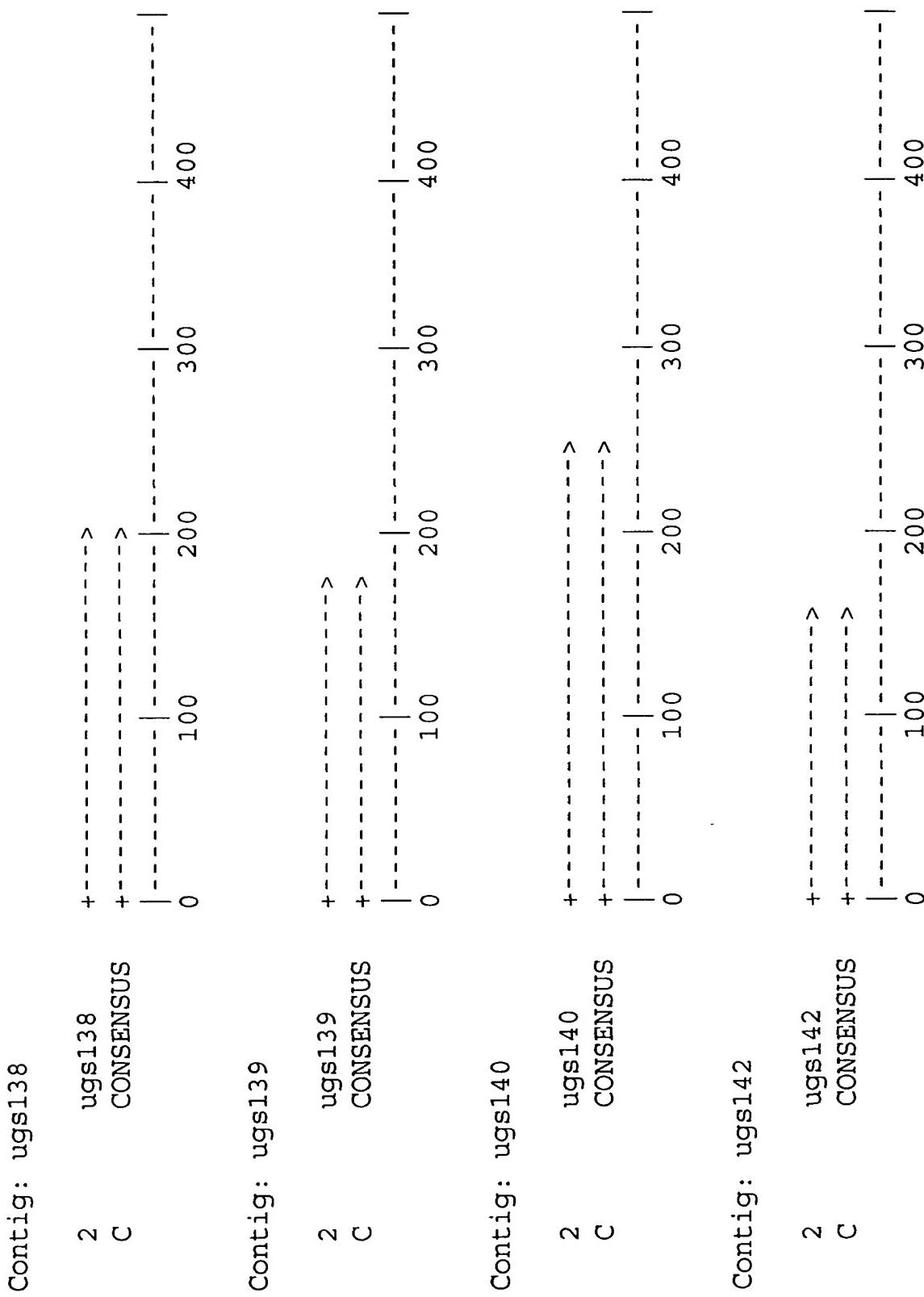
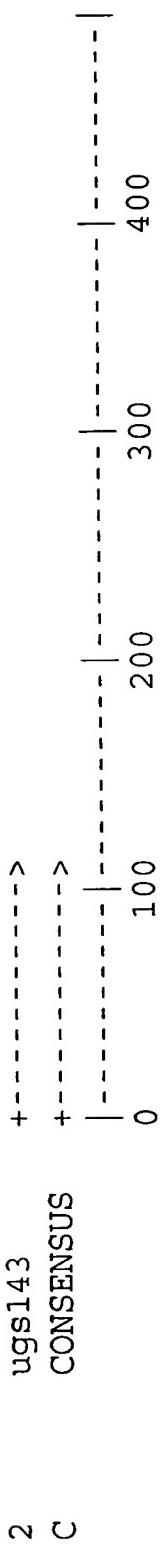


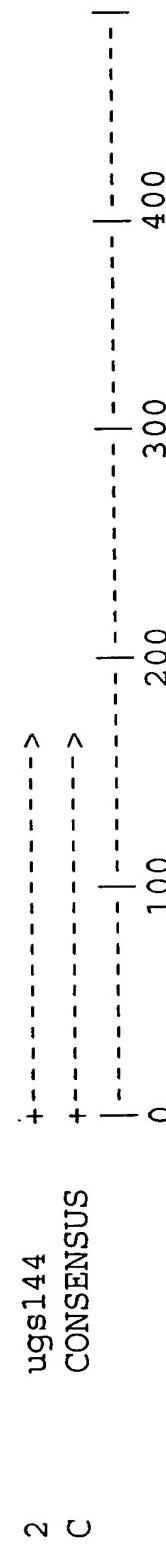
Fig. 8 - 161 of 180

429/472

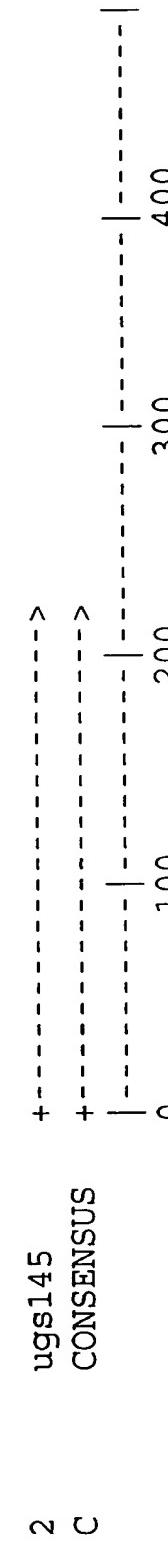
Contig: ugs143



Contig: ugs144



Contig: ugs145



Contig: ugs146

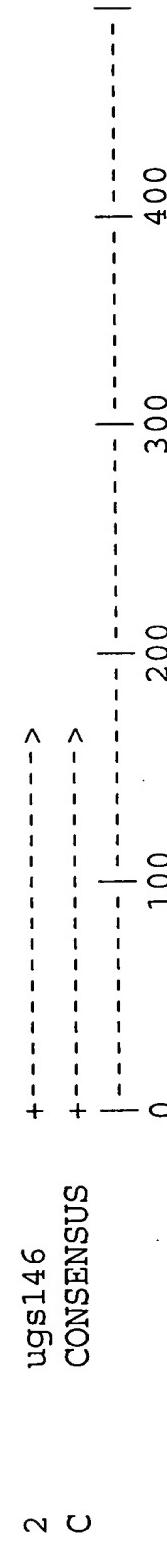


Fig. 8 - 162 of 180

430/472

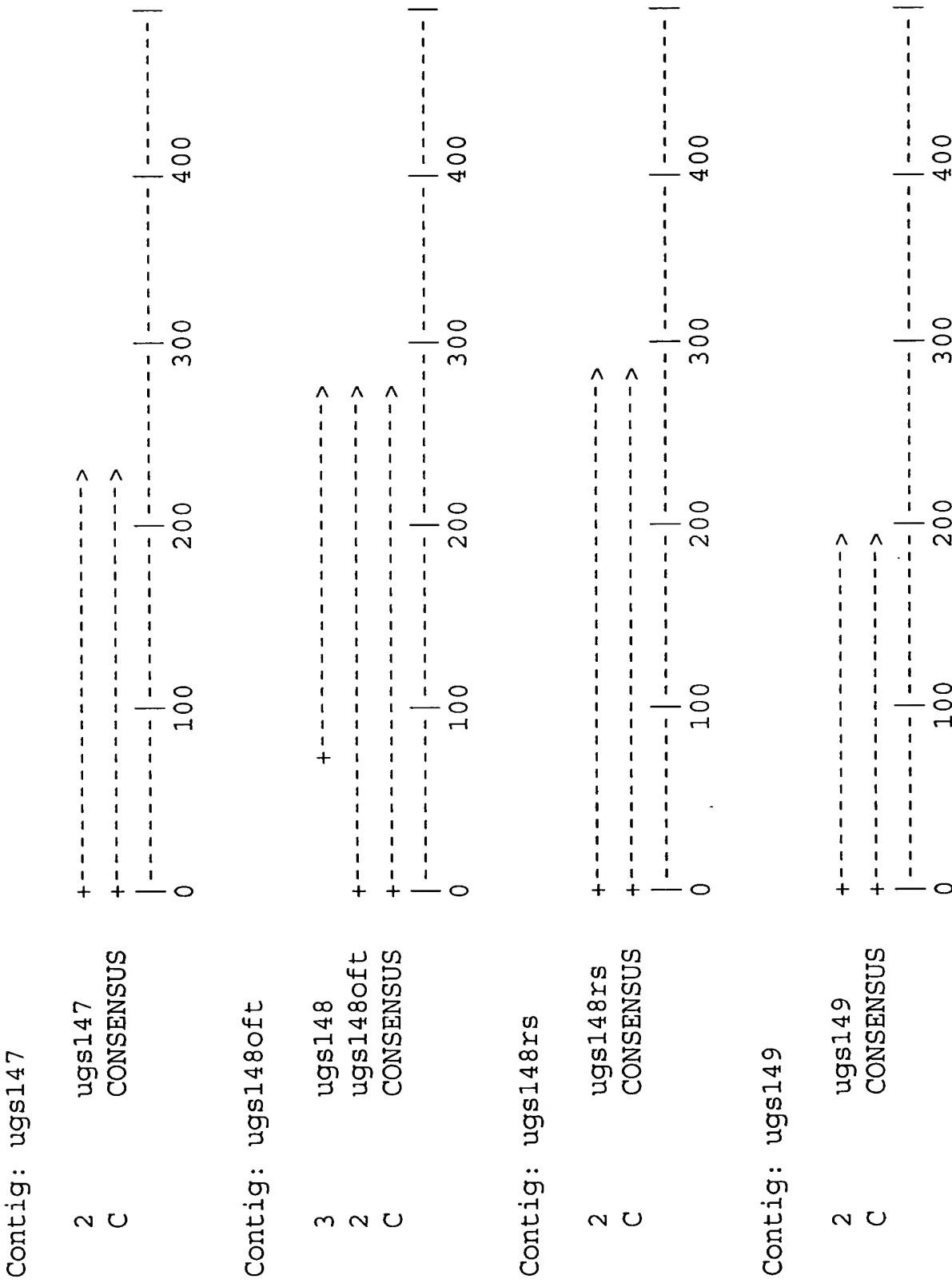


Fig. 8 - 163 of 180

431/472

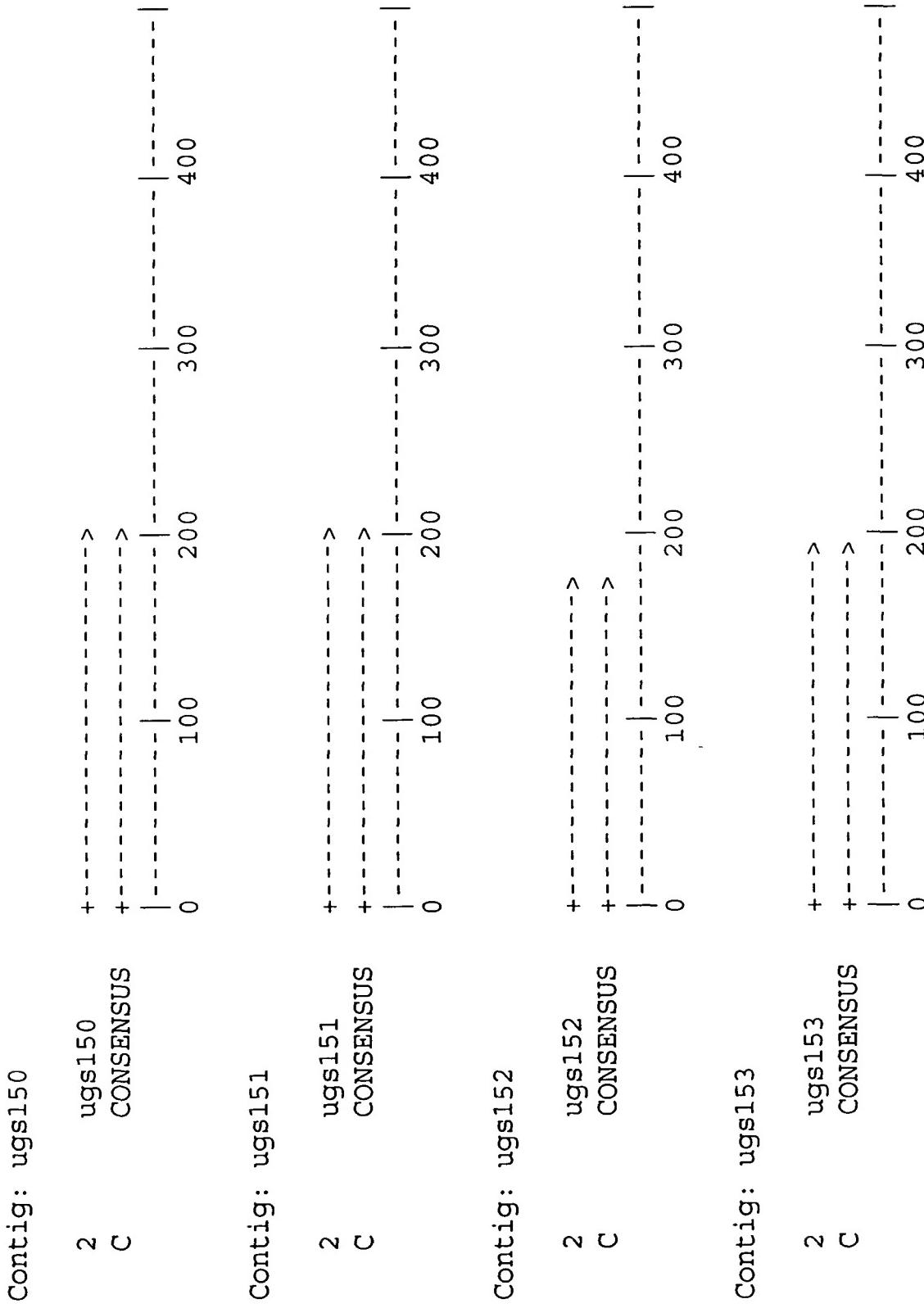


Fig. 8 - 164 of 180

432/472

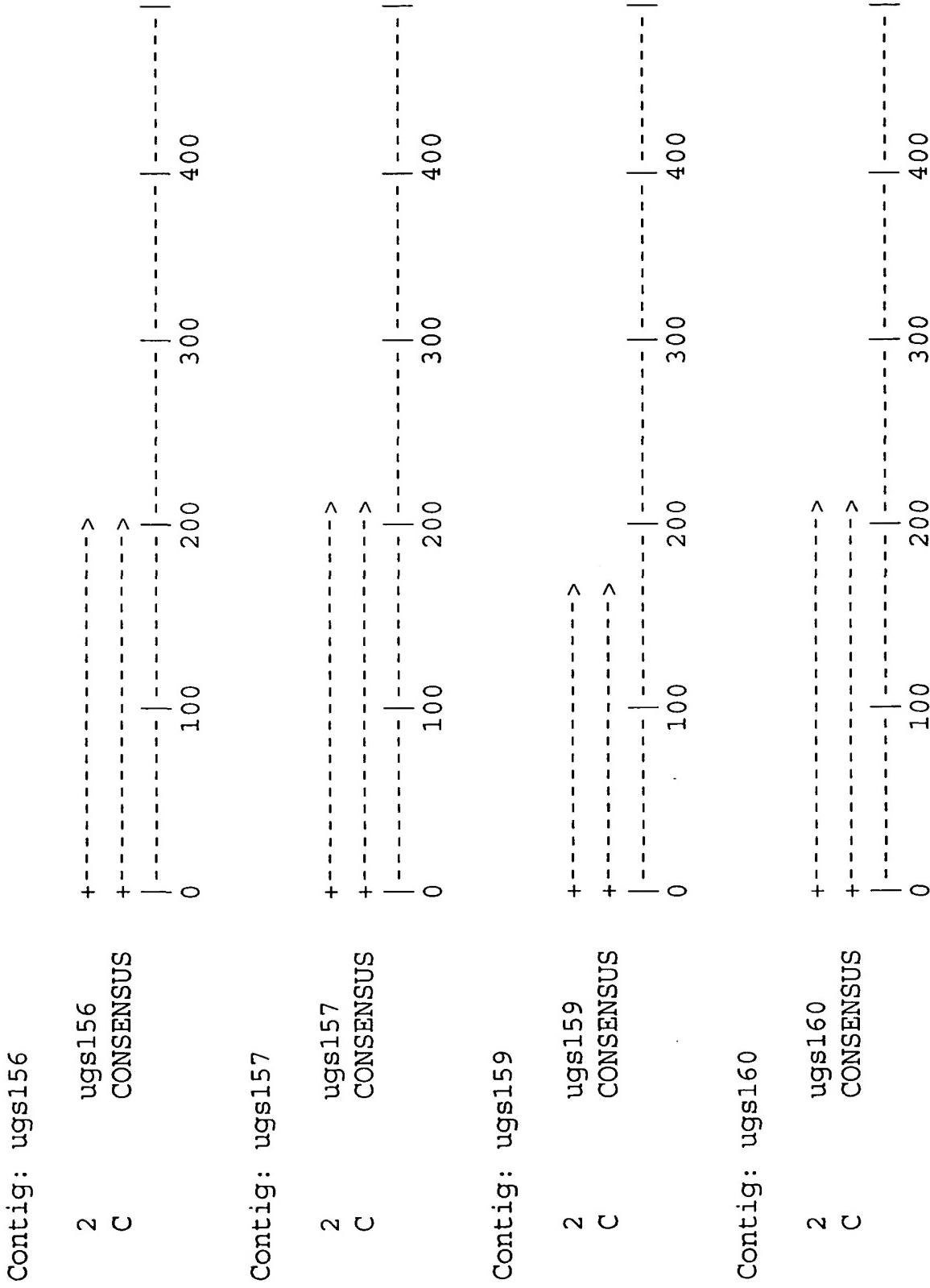


Fig. 8 - 165 of 180

433/472

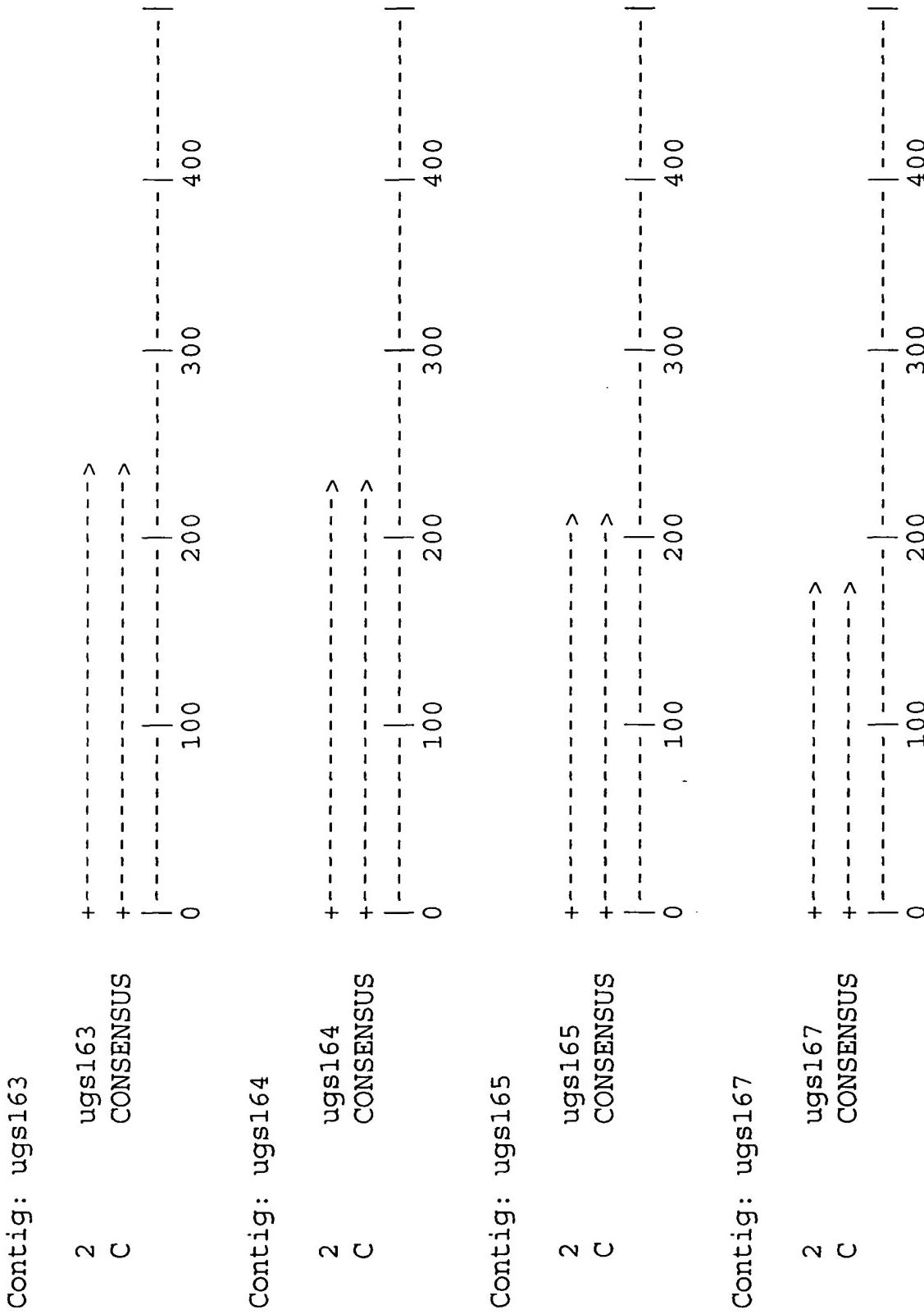


Fig. 8 - 166 of 180

434/472

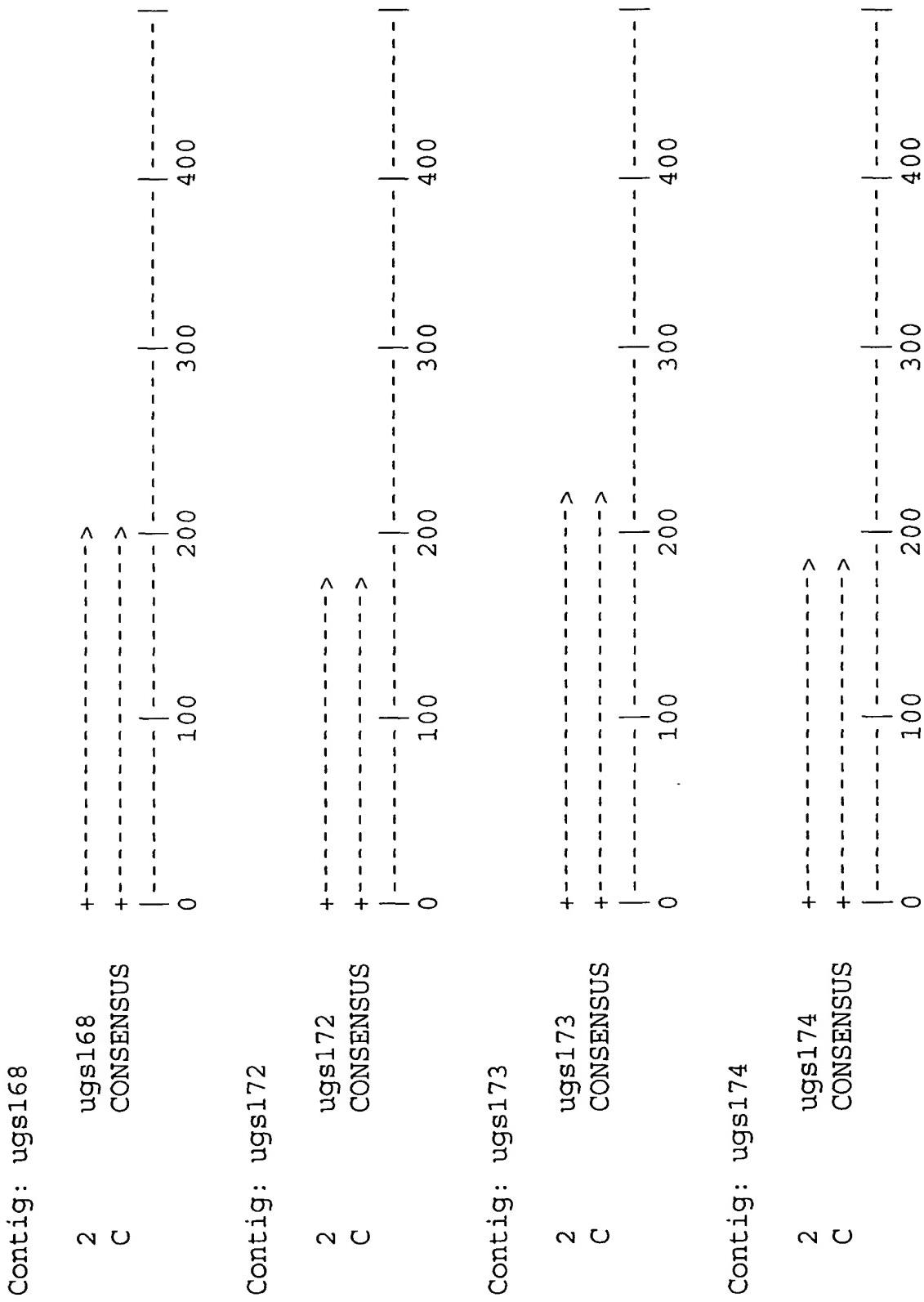


Fig. 8 - 167 of 180

435/472

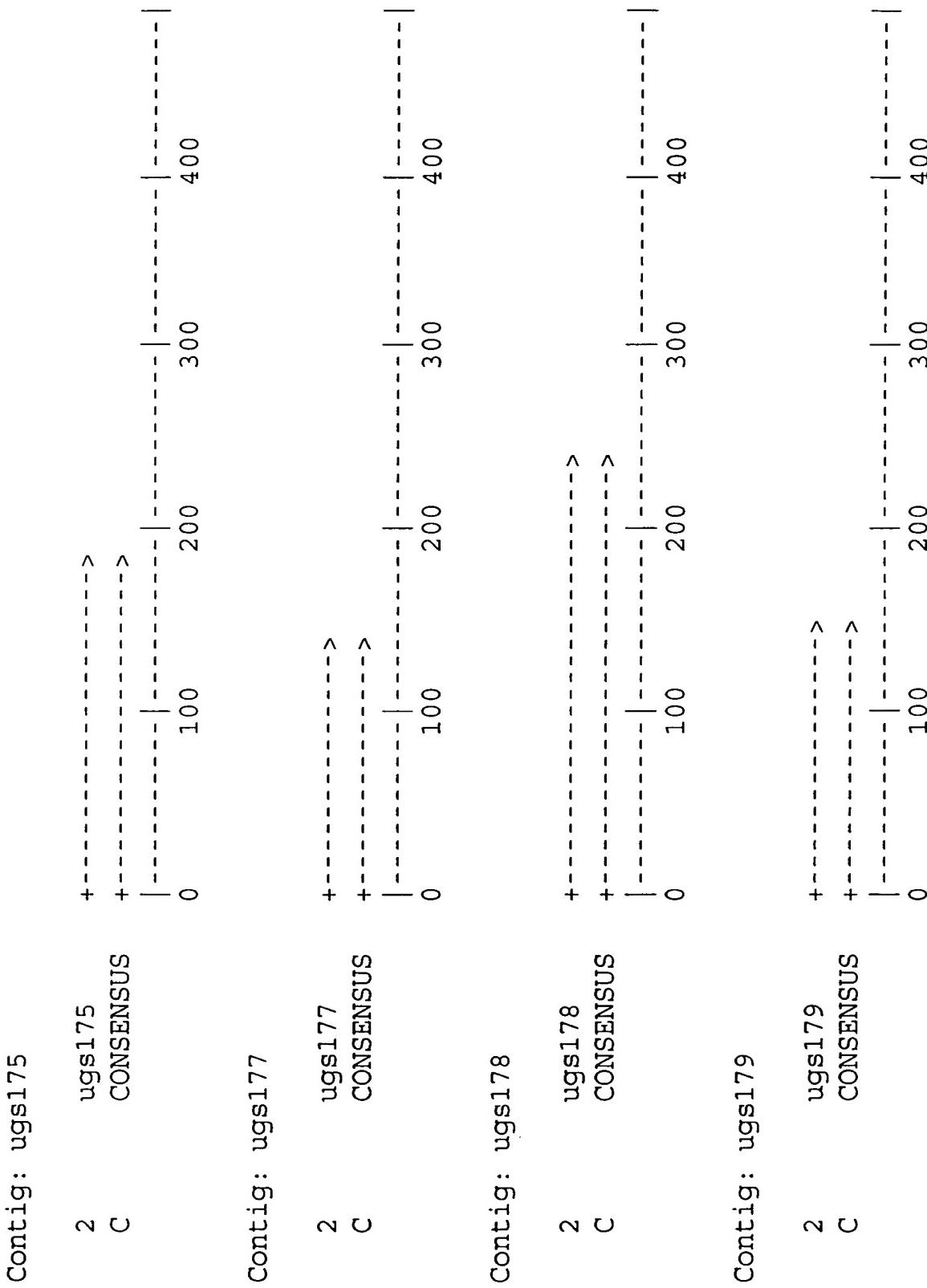


Fig. 8 - 168 of 180

436/472

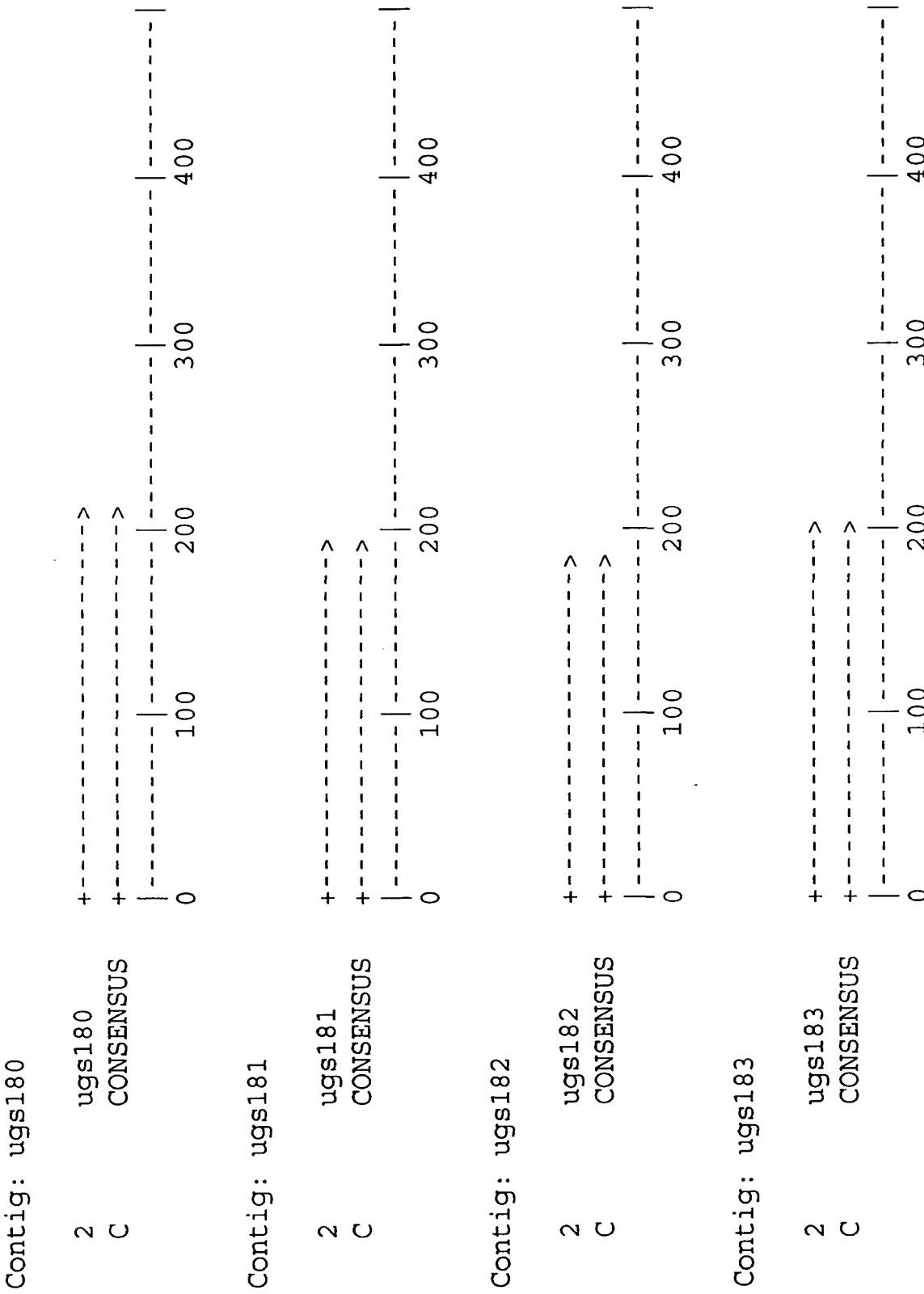


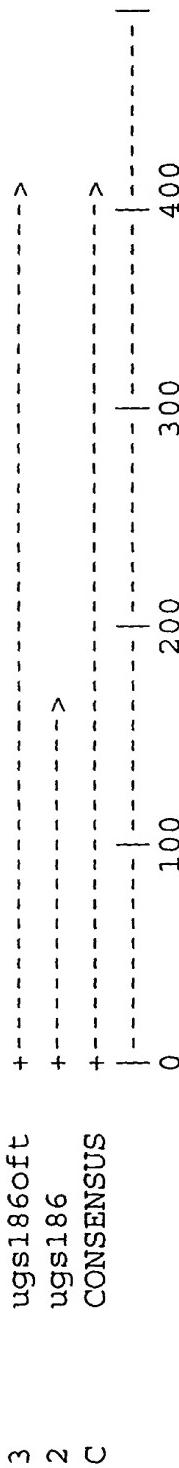
Fig. 8 - 169 of 180

437/472

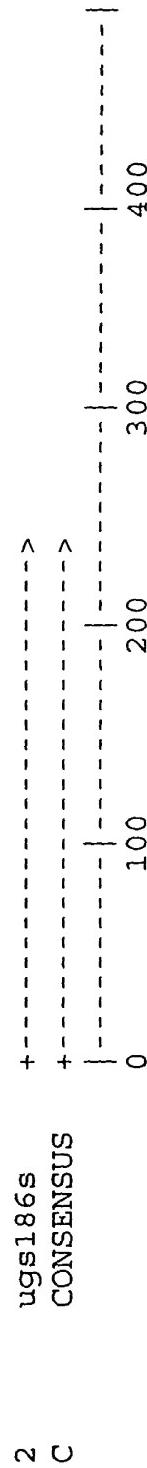
Contig: ugs184



Contig: ugs186



Contig: ugs186s



Contig: ugs187

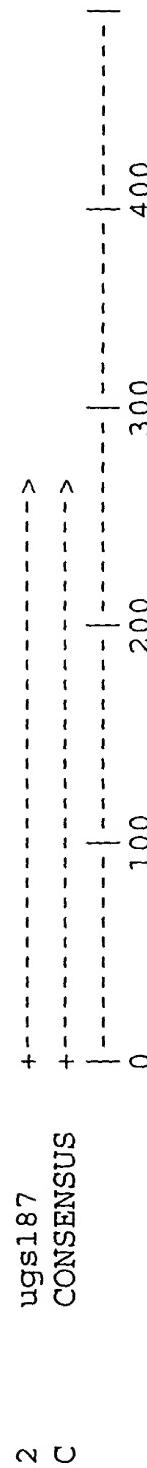


Fig. 8 - 170 of 180

438/472

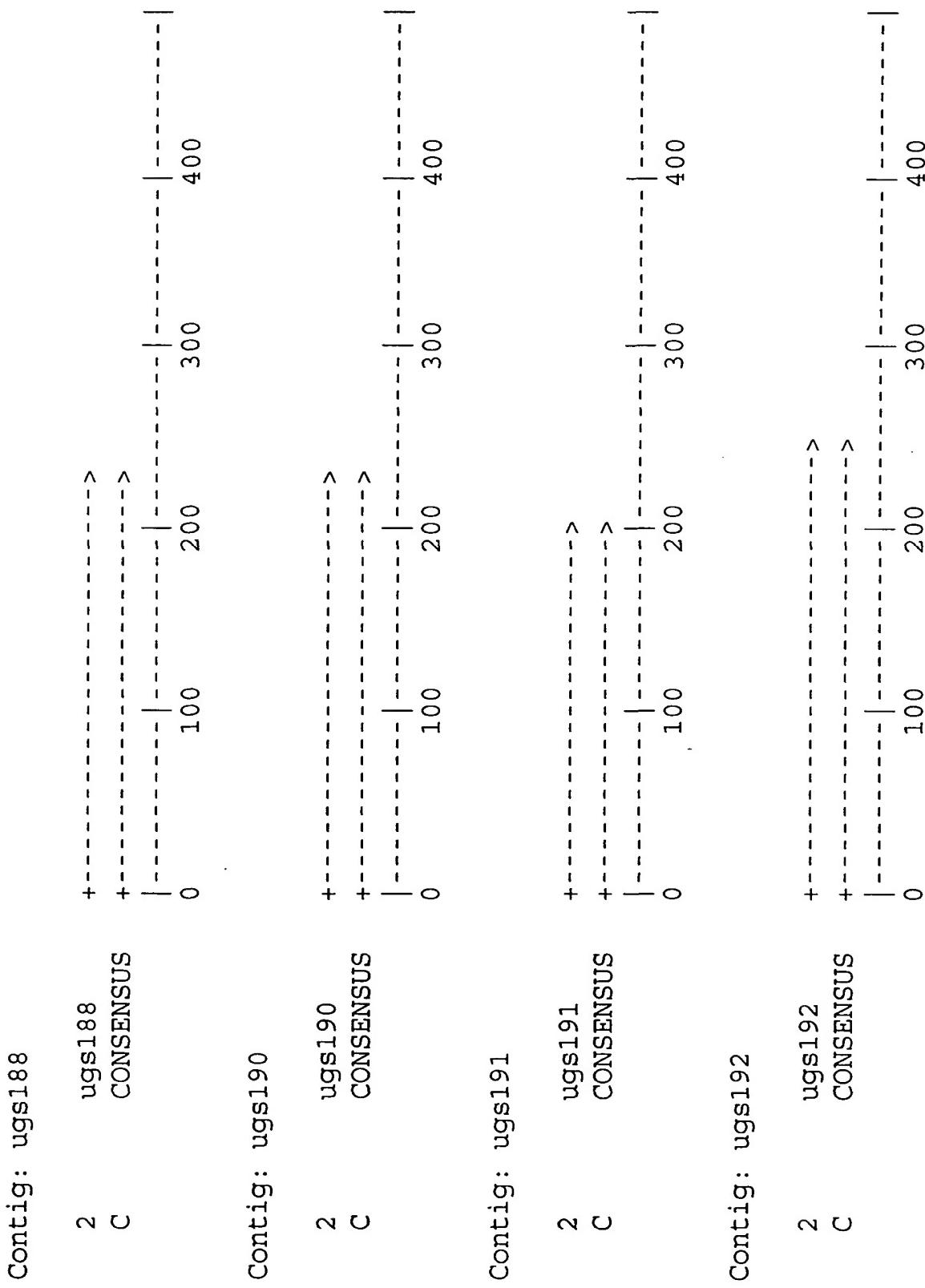
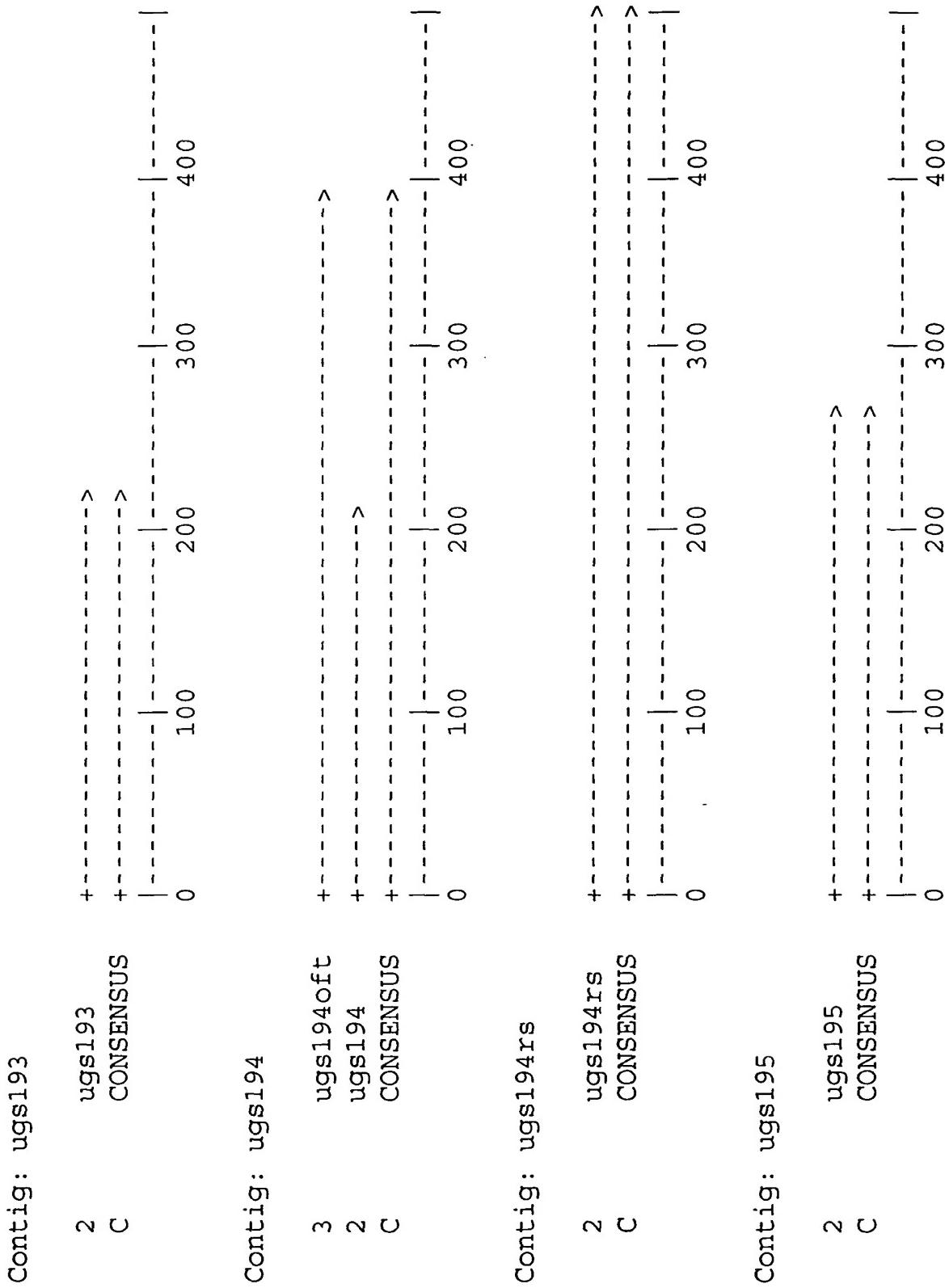
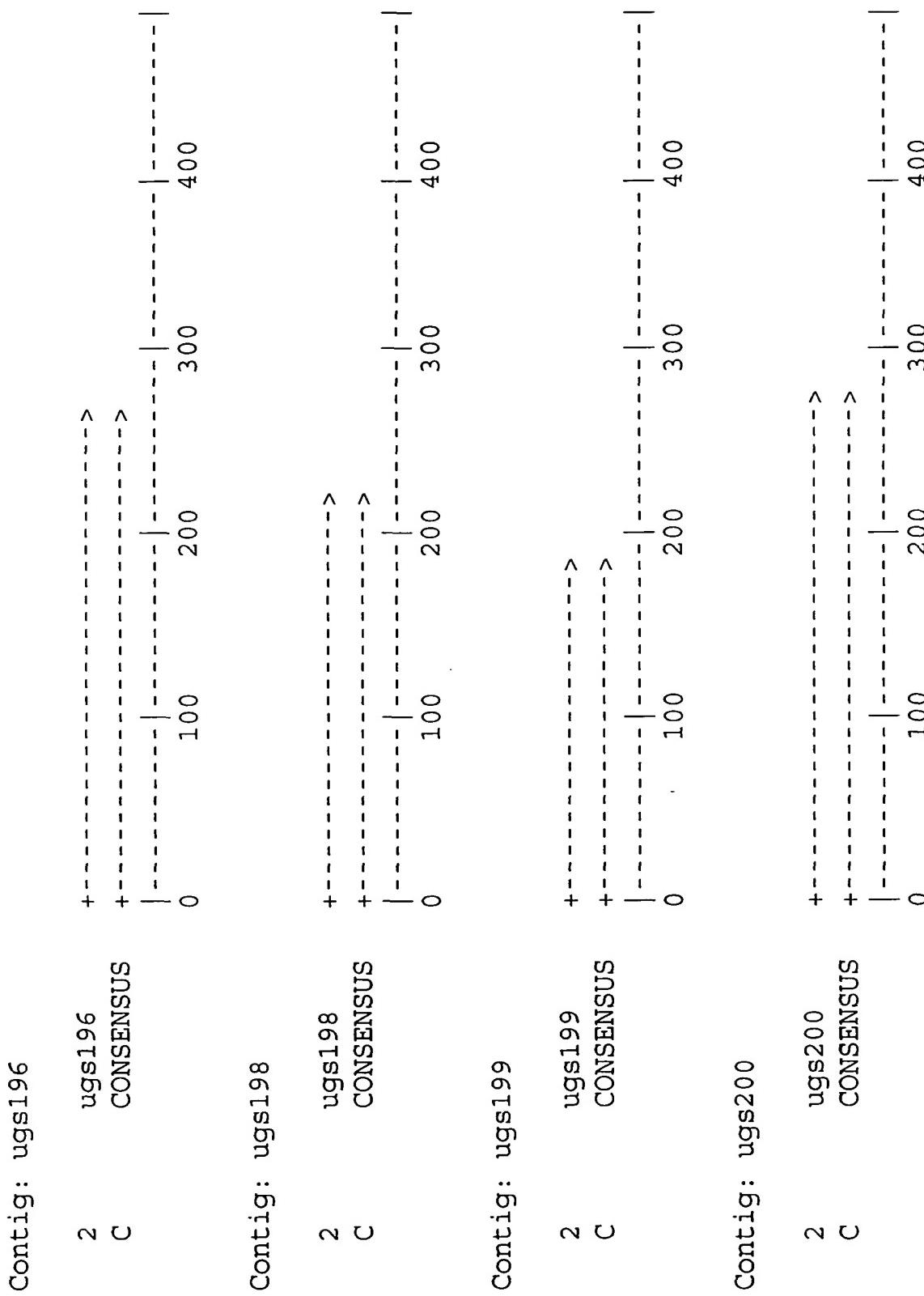


Fig. 8 - 17 of 180

439/472



440/472



441/472

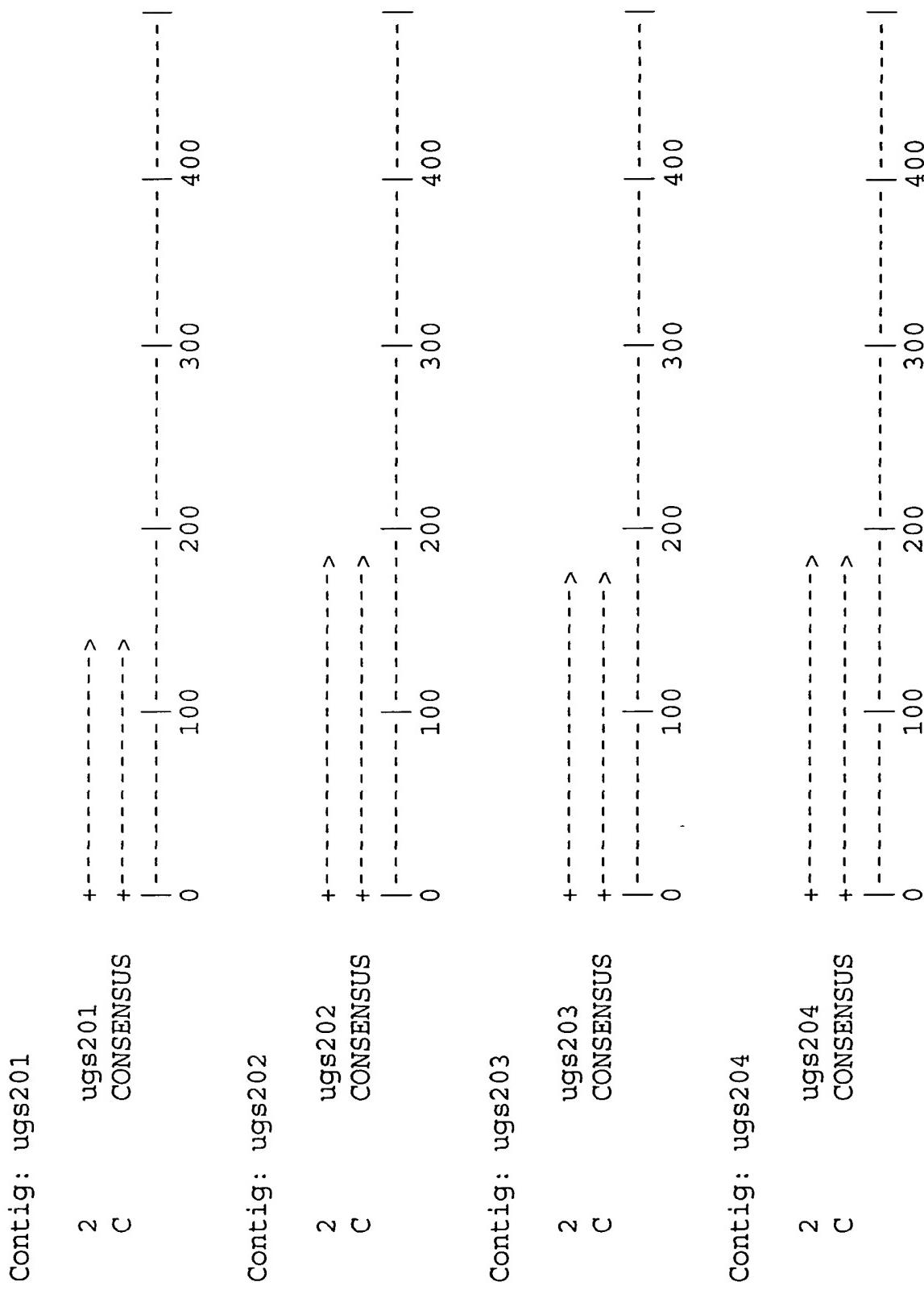
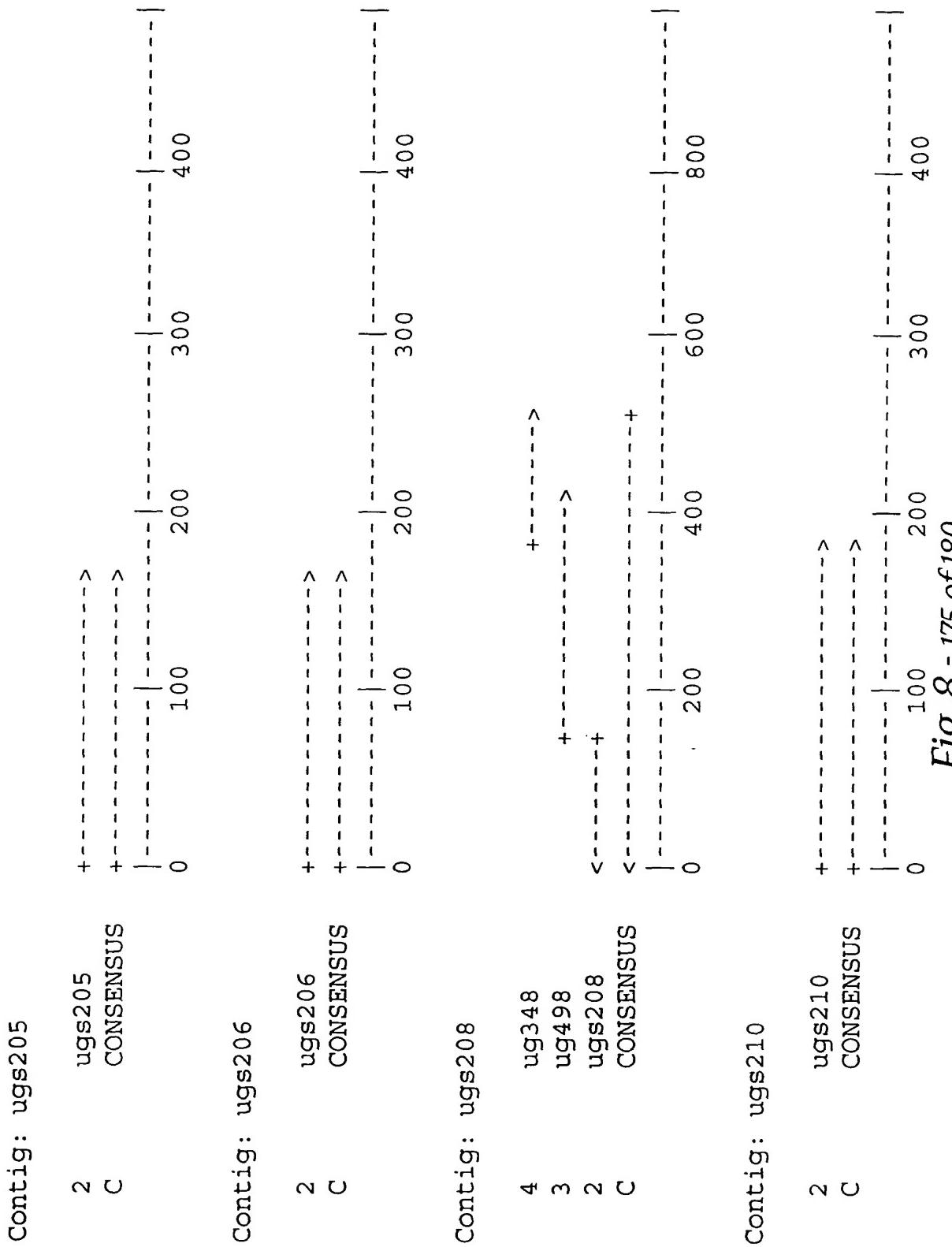


Fig. 8 - 174 of 180

442/472



443/472

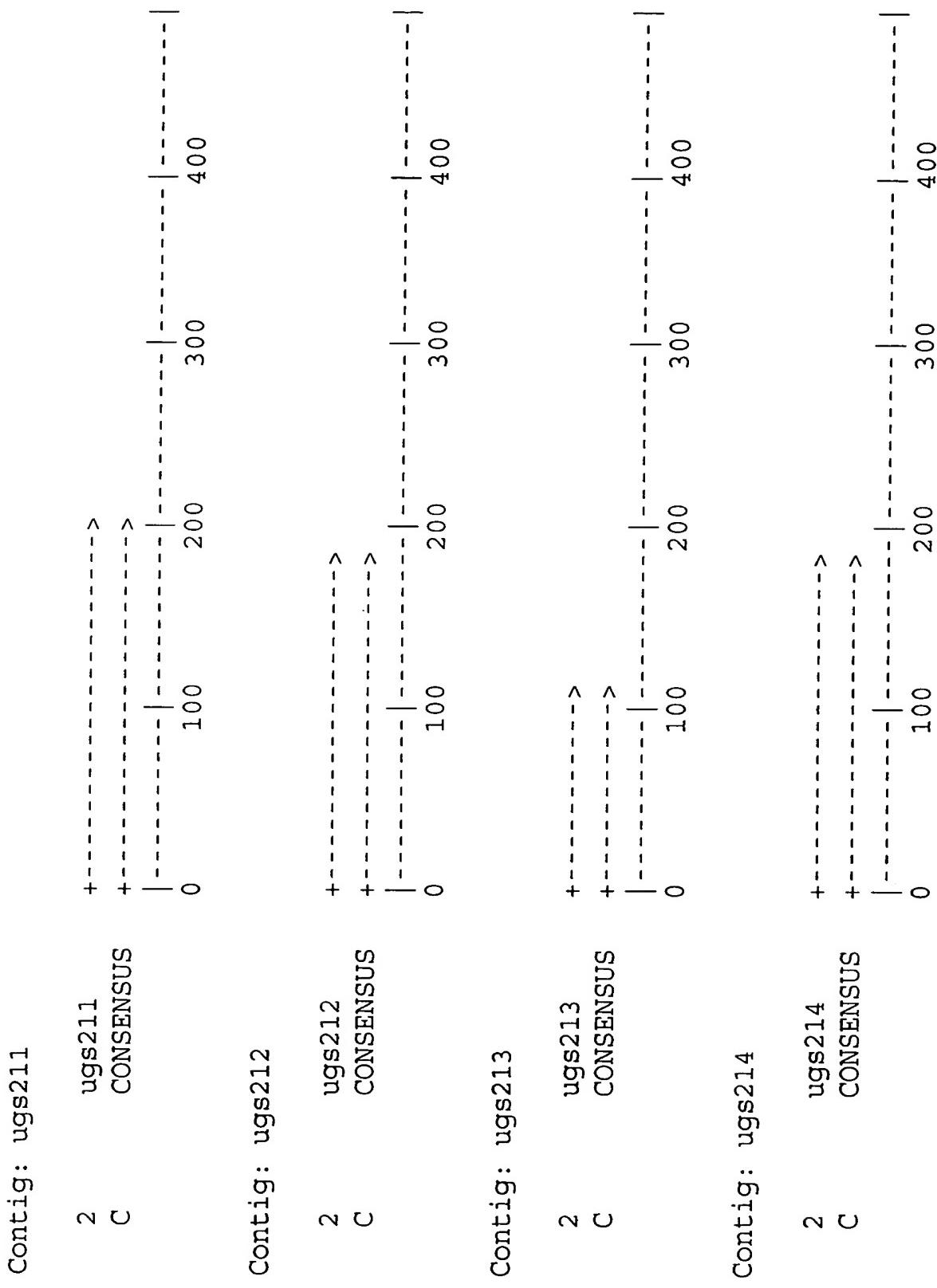
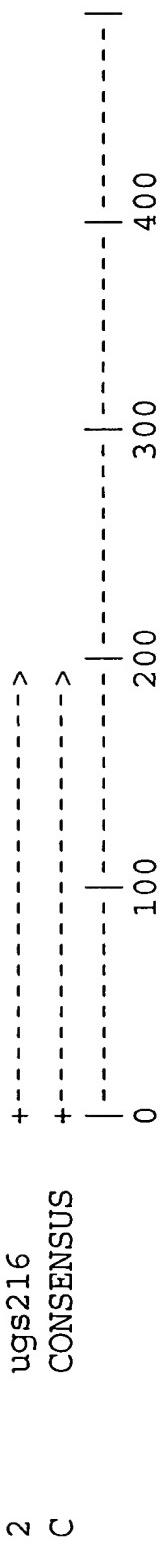


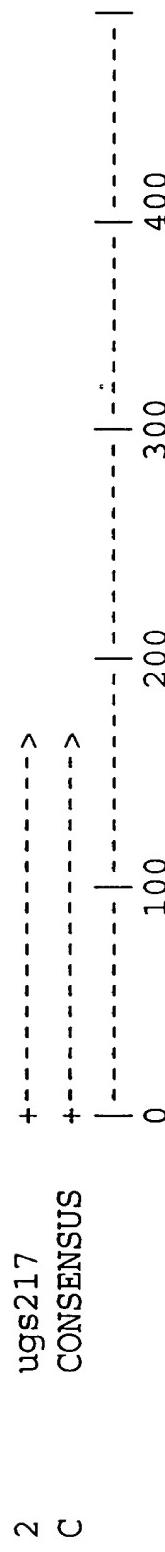
Fig. 8 - 176 of 180

444/472

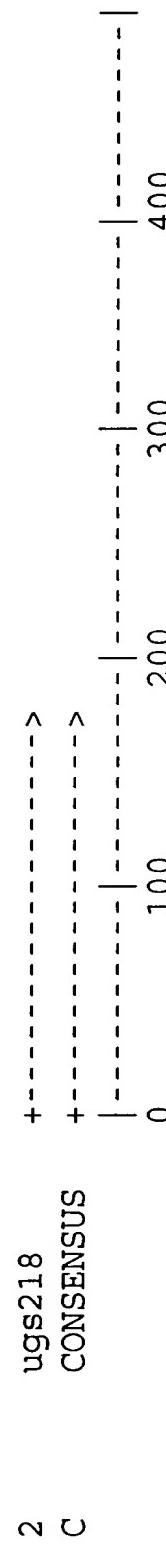
Contig: ugs216



Contig: ugs217



Contig: ugs218



Contig: ugs219

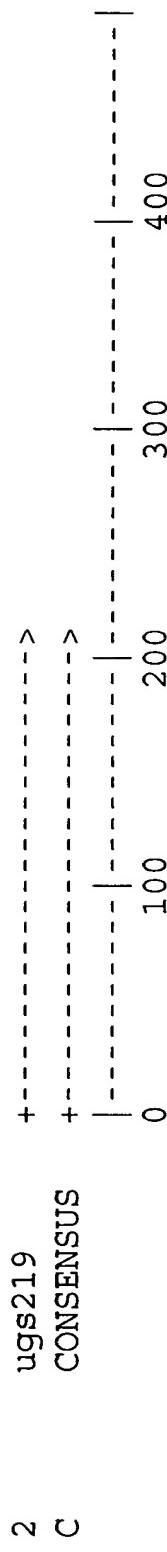


Fig. 8 - 177 of 180

445/472

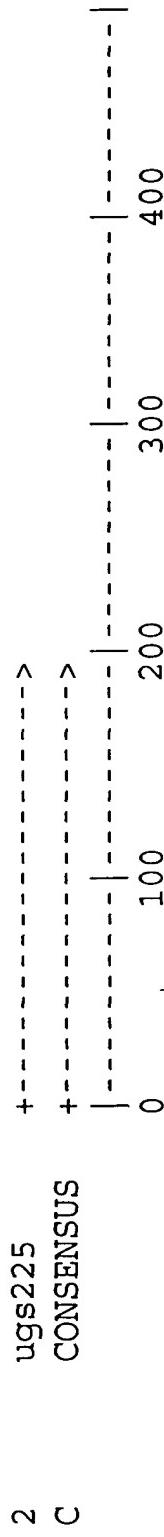
Contig: ugs221



Contig: ugs223



Contig: ugs225



Contig: ugs227

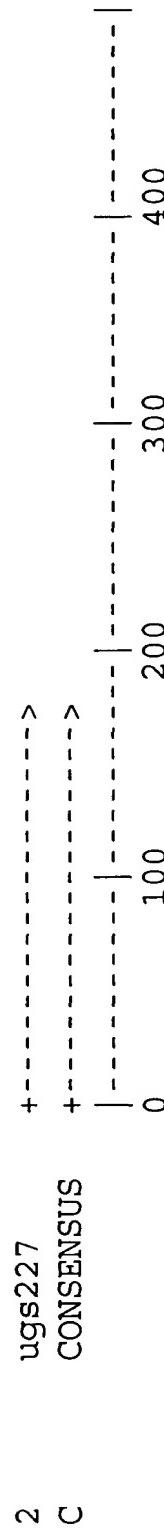


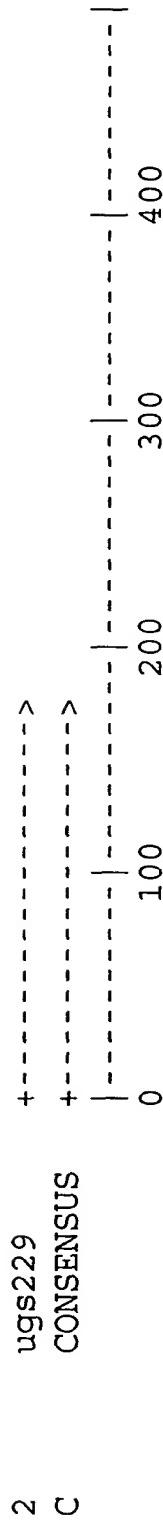
Fig. 8 - 178 of 180

446/472

Contig: ugs228



Contig: ugs229



Contig: ugs231



Contig: ugs232

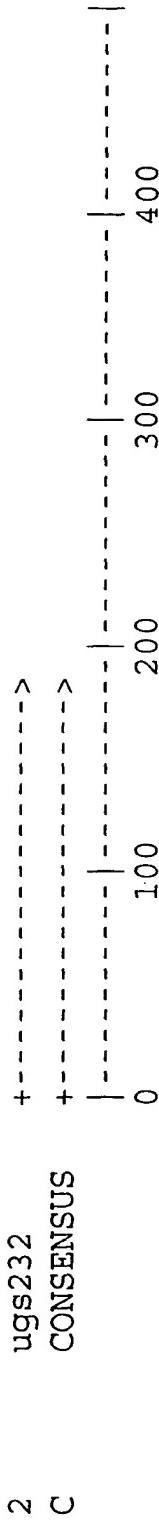
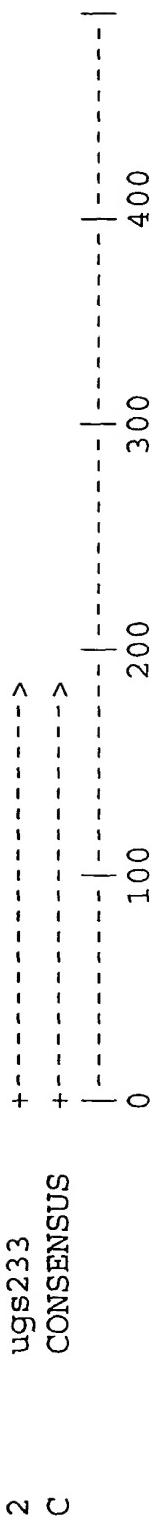


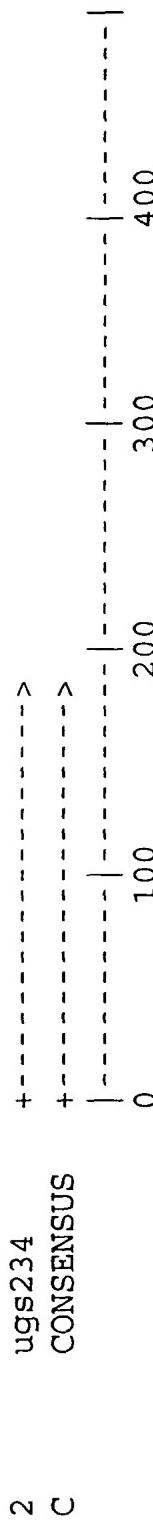
Fig. 8 - 179 of 180

447/472

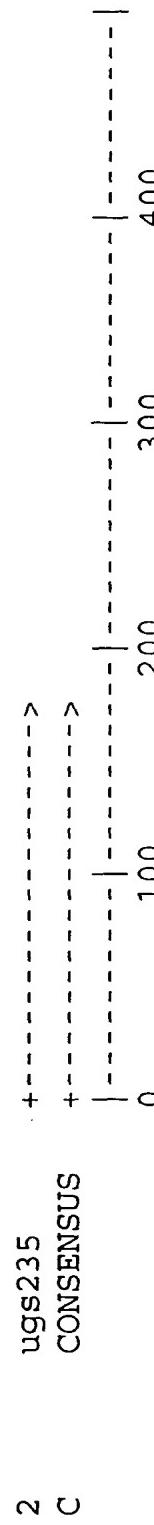
Contig: ugs233



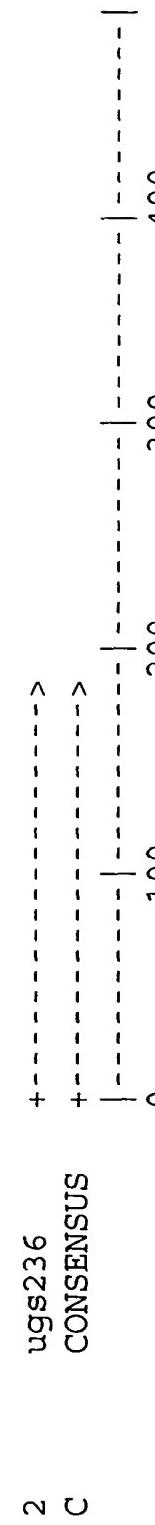
Contig: ugs234



Contig: ugs235



Contig: ugs236



819 Fragments in 697 Contigs Fig. 8 - 180 of 180

448/472

ug092ft

1 GGATCTATGC ATTATGTGTT AGGAGATTT TGAGYCCT ATGTCANCTG
51 ATCCTAGGGA TCCATTCACTG TGGTGGGGCT CCATGCCGSC CATGCCTCCC
101 ATTGGGCCGT CTGAGCCAGG ACCCATTGGA AAGTTAGACC GGCTGCCTCC
151 AGGCAGGCACA GGATTAATCA TTGTGTAGAT GTTGTCACTG GAATTYBTTG
201 AATCTGCAGG ACTAGGCATG ATGGGGGTTCTGGAGGGCC ACCACCA
251 GGGGGTCCC ACATAGGTTTC CGGGTGATGA TGAGGAGTAC GGGATTGAGT
301 TAGCACTGTT GGGATTGGGC CAGGGTCTGC CAGCTCCTGG GS CATGTAA
351 ATCCCAGGVA TGGCGGGGCC GAGGGAGTTK GGTGGTGGTC TMATGCCGCT
401 GCCGTAATTCTGTGGGNAG GCCCATGGGC CCATGCCTCG GGGAGGGTTM
451 ATTCTCTGMA TTGANNCCCTCAATGTTGGG GTRACCTTGT TGCGTGTG

ug092ors

1 NGAANTCCGA GCAGGGCGAGC GCCGGGNNGG GGGCCGGGWG CWRGGCARCT
51 CGGGWGRNCC GGACGGTAGC GGCGGCGGCG GCGGCGGGCT CGGCGCCCTC
101 TTCTCTGCAA GCCATGTTG CCAAAGGCAA AGGCTGGCG GTGCCCTCGG
151 ACAGGGCARGC TCAGGGAAAAG TTAGCTTAT ACGTCTACGA ATANTTACT
201 GCACGTWGGA GCANMAGAAA TCTGCACAGA CCTTCTTATC AGAGATTGGA
251 TGGGAAAAMH MNCATCACAC TGGGTGAACC NCCTGGGTTCTGCACACTCGT
301 GGTGGTGTGT ATTTGGGAC CTTACTGTG CAGCTCCTGA AAGGGGAGAC
351 ACTTGTGAAC ATTCAAGTGA AGCAAAAGCC TTTCATGATN NTHTGTGCAG
401 CAGCTGNCCC CAAGCCCTGT GCTTGGCAAC ATTNCCTCCA ATGATGGGAT
451 GCCCGGNVGS CCCATCCGC CAGGKTTCTT TCAGCCTTT ATGTCACCGC
501 GATATGCAGG CGGCCAGGC CCCGNATCAG AATGGGAAAC CAGCCTCCAG
551 GGGGAGTTCC TGGGACACAG CCACTTGCTG CCCAATTCCA TGGG

449/472

ug093f

1 GCCATSTGGT GGATTGCCG GGTWMGTCGC CTGGGCTGGC AATTGTGTT
51 TCTTCGTGTC TGTCWCACCH CYSTCCGGC TCTTCTGGCT TTCCACGTCT
101 CT

ug093ft

1 GGAATTGCC GGGTATAGTA GCCTGGGCTG GCATTTGTGT TCTCTTAGTG
51 TCTGTATAAC AYCYSTCCAG GCTCTCTGG CTTTCATAGT CTCTSGTGAM
101 AHGTCTGGTG TAATTCTBAT AGGCCTTCCT TTATHYVYKM CTYGACCTT
151 CTCCTTACYG CTCTT

ug106ft

1 GGNATTGGC ANNGRAGGGGA GCAGAGAGGA GGCACAGATG GGCGTGGGA
51 GAAGAGAGAT AGGAGGGCAG AGGCGATCGC SGKTGCAAGC AGGAAATGCC
101 TTCGCCTCCT CCTGCAGGTT TGCAAAGAGC TCTGAAAAGG TCTGGCGGTC
151 CCTGAAGTGG GTTGGGGGTG GGTAGGGCTG CATAGTGACC CGCACAAAGA
201 GAGGGAGAAT SGMGCACCTC GAATATCCTT CAACTCAAAG AAAAGGATAA
251 MGGMGAGCAA ATGCATGTAT CTCTTCAGAT AGATTBTGAB CTSGGCCAAG
301 TAACTTATAT AC

ug106ors

1 GGAATTCTC CCTTTGTNCT GNCAGNNTTT TNCCCCTTGA NCATWNCATT
51 CATTCAATTNC ATTCAATTCAW TNCAAGTGNAA GAGCYYCGTG KYCAGKNATT
101 CCAGACTCCG ATGAAAHTYG AAAATCGANY CNYYYYCNNKT CYAATTANN
151 KCYAAYCAGA GAGAAACGSY TCCAGTTCG TNCAAGCATAG ACCATACATA
201 TATVCWBKK KGKGCACTGT CTACAAGTAA AACAGTTGCT GGAGTAGGCC
251 GGCCAAGGAT TCTACTCGTT TCTAAATAAT CAGATGACTT TTTA

450/472

ug120fmin

1 GGAATTCGAC AAATTAAGAM AMGCAAACAA ATCATAGCTG CKCCTSWCGT
51 KTTTGTCG AAATTGCACA AGAKCCTATA CACCTGA

ug120os

1 GGAANTCCAT AAGTACTATN AWDDNVBBVH WWWTTTTAAG TTGAGGCTCT
51 AATTAGACAT CAGCCTGATT YCTTSAGTT CCACACACAC ACACACACAC
101 ACACACACAC ACACACACAC ACACACTGTC TTCAGCAGTG AGACCTTACA
151 ATCACTTCTT AGAAAACAMTTGATAAGTMG CCTTGCCAAT AGCCAGTGTT
201 ATTTTGGGAT TCCATGGGAT TTCATGGAGT CAACATTGGT CAGCAACTCA
251 ATTAGATGTA AGCCATTCTT GGGACTGAVA GGTTCCCTTG GAGAGGAAAG
301 ANTGTCTAGT TGGAGTACTG TTTCCCTTGT TGTTTAGTGA CTCCATTAG
351 ATTTAACAT ATATGTATAT ATTTAAGAA GTTTCAACTG TAGTAGGTTT
401 CCATATGGAC CCCAAAANNT CTTAGTGCTA ACTGTCCCTC CCTG

ug254f

1 GGAATCCCG GNCTCGAGCG GCCGCTTTC CCCCCCCCCC CDCCDCDCTW
51 CWCWCWCTCT CTCTCTCTCT CTCTCTCTCT CTCGCGTCGC GGGCGTAGGT
101 TCTTTATT

ug254ors

1 GGAATTNCAA GAATGTACGS CAGAGGAACG NCACCTGAGT GGTGGGGCAG
51 GCGGGGGAGG GGAGGTGCC AGGGTGCCTG ACCCCAGGCC AGCNTCTACC
101 TCCACTCCAG TATCCCATCC TGTCCCGATT TGAACCTACC CAACCCAACC
151 TATCCCAACC CAAGTGAAGA CAGAGCCTTA CCTTACAGAA AACCCACCTG
201 GRAGAAGCAA RCCACTNCA GCCCCTGTTT CTAATTAMM CTAAATGAGG
251 TTTCTATGCA GACAATCCAT TCCTAGGGG TTTATKTYB NNNNNBBSCT
301 TCCCTCTGA AGTGTGTCA CTACAGCCCT GTKGAGTKGG GGAATKGKGC
351 CTTGTCTTK GTCAGGAGGG AAGGCCAGTG CATGCTCTGA CTTACTGTTG
401 GAGGGGGCTG GGCTSCTGG AACCCCCCA AATAAAGACC WACCCACCA
451 AAAAAAAA A

451/472

ug277ors

1 GGAATTCATG GCGCATCCCG CACCCCTGGC GCCCGGCGCC GC GGCCGC GT
51 ACAGCAGCGC CCCGGGGAG GCGCCCCGT CCGCCGCCGC CGCCGCCGCC
101 GCCGCCGCTG CTGCCGCCGC CGCCGCGGCT G.CCGCGTCG TCGTCGGGAG
151 GGCCCAGGGCC GGCGGGGCC GCNGGTGCCG AGGCCGCCAA GC.AGTGCAG
201 TCCCTGCTCG GCGGCGGCAC AGAGCTCGTC GGGGGCCCGC GGCGCTGCC
251 TACGGCTACT TCGGCAGCKG CTACTACCCG TRCGCCCGCN ATGGGCCCC
301 ACCCCAACGS CATCAAGTCG TGCGCGCAGN CTGCTTCGGC CGCCGCCNSY
351 CTTCGCCGAC AAGTACATGG ACAMCNGCCG GCCCCGYGGC SAGGAGTTA
401 GCTTCCCGCG

ug277f

1 CTCACTATMC CCMTYCCCCT CTMGATCATC TCACCCCCCA ATCTCTAAAT
51 TCCCCTYAGS ASACCAAACCT TCARCCCTCTC TCTATCCAAT TCTTCAGTTA
101 GTAT

ug277t

1 TCCTTAHGCK TTTCTTCAAG CTGCCCTCTG CTCCACCTTT TAATCCATTA
51 ACTAGTGGTC TTGAGTTAT TGATGACTTT TTTCTCTTG ACCCTCCTGT
101 TCTGGAACCA GATTGTGACC TGCCTCTCAG AGAGGTTGT CGTGGCTGAT
151 ATCCTCCTCC GTTTGTCCTT GGTAAATGAATTKTTCTCGTAG CGTATTCCCG
201 TTCGAGTTCT TTCAACTGCA CCTTAGTGTA AGGCACGCGC TTCTTCTCC
251 CCCTCCTATA GGAGCTGGCG TCTGAAGGAT GGGAGACGAC GTGGGGCAGA
301 GTGGACTTCC AGAGGTGGGG AGGCTCGTC TGCTCTTGG GGCAGTACAT
351 TTGGCCGTTTC CAGCCGTTGG GCAGAGCCA GGGGCTGATA GCTTCCATG
401 GGAAGCCCCA GAGGCTCGTK GCGCGACTCG CCAGGACCCC CGAGCCCCGG
451 AACTACTGGC ATATCCAGGT AGCCGGGCAC GGGCTGGTGA TGGTKGGTAA
501 GGCCCAGGYTG CTTA

452/472

ug291ors

1 GGAATTCTGG AGAAGTGGGA GGTGTACTGT ACGGGGAGGG ACCAGGGGAA
51 GAAGAGGGGG GTGGAAAGTA AGAWGGGAGG AMMGGCAGGM GGGGGAGAGA
101 GAGATGTTAC TGCTTCTTT TCAGCACATA TAMNNCNNAB GRCTANRGAA
151 ACGCATATTT AAAATCCAGT TTCTATATTAC ACACCTAATT CACTTCCAAA
201 CCTACTTGTA AAAATCCATC TTCAGCAAAT GAATTGTTG GGAAAATGGC
251 CAGGCATCCA TACACAGAAA GGTTCTCCAT CACCATAAT TAACTCATGG
301 TATGCTGAAT TAATTGTTGA AAATTACTAG AAAATATGTT CACAAACCTG
351 GCAAATTCACTATGTCAC ACACAAATAC TCCTTCTTT CTCCCTCCTC
401 CTCCCT

ug291ft

1 GGAATTCGTA ATTTAGAAA ANYGCTTGCG TATTCTNTHHH NNCGTYNGLT
51 NGAACGTGGG GGN.TYTTTCTCAATAGCC CACATTGACC TTGAACTCAT
101 AAACTCAAGC AATCCTCCTG .ATACCCAAG TANGCTGAGT CTACATGTCT
151 GGGCCTCTGT GCTCGGTTGC CTCTGATTT CATCATCTGA AACTAAGACC
201 TGCCAAAGTN GGGGGGGGGG GNCAGTTTC CTGAGATTTC GAGACTTGCA
251 TGCSCGGTAC TGGATTGATG TGAGAGCACC CTCTGGGCC ATCTCTGTT
301 TAATNCCCGG GCTCGGTCTT CTGCAGCCTT TGGAAAGGTT ATGTYTCAGA
351 ATAGGTGTTG GTTACACCG ATGTTTTCA ATGCTTCATA GGCATTBMMC
401 AAGATAMC

453/472

ug307cons

1 GGAATTCCCN GGCTCGAGCG GCCGTTTT TTTTTTTT TTTTCAGAAA
51 GCCAGTTAT TTCTWAGNCT TTNTNCATAN MHYYYHBMNC SGGTACCAAT
101 AGTTACCYGC CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG
151 TCTKGCCATC AGCAGACCAT GCCAAAGAGG TACACTGGGG TGGCTCTGCC
201 TTKCTGCTGG TGCTGATAAC KTCTTNCKBC AAKTCATCTA CAATGRBCTK
251 GCCCTCCAAG TYCCAGAYCT TGATGCTGVG NNCMRTGGCA GCSCAGAGCC
301 AGTAGCGGTT GGGGCTGAAG CACAAGGCAT TGRTGATGTC CCCACCATYT
351 AAAGKKTAGA GGTGCTTGCC TTCATTGAGA TCCCACAGCA TAGCCTGGCC
401 ATCCTTGCCCT CCAGAACAC AGAGGGATCC ATCTGGAGAG ACAGTCACTG
451 TGTTCAAGGTA GCCAGTGTGG CCAATGTGGT TGGCTTTAG CTGCAGTTAG
501 CCAGATTCCA CGAATTCCAC CACA

ug308f

1 ATTGGCCTTG AKCATCTGAG CGGCGCAGTK TGTGAATCAA GCTGAGCGGC
51 GCTTTTTTTT TTTTTTCAGC TAACTTA

ug308o

1 GAATTCGCTC TCCTTCCCTC GGAACAAACAT TAGCTACCTG GTGCTCTCCA
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTAA TGGCAGCATG
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC
151 TTCCTGTTTG GTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTTGGTACT
201 GGCAGTCAA GTTCATGCCT GGCAACTGTA CTACAGCAA AAACTCTTAG
251 ACTCTGGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT
301 GATAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCATT GAGCAGCGTK
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC
401 ACC

454/472

ug308t

1 GGAATTCGTG GATCTGGCTA ACTGCAGCTA AAGACCAACC ACATTGGCCA
51 CACTGGCTAC CTGAACACAG TGACTGTCTC TCCAGATGGA TCCCTCTGTG
101 CTTCTGGAGG CAAGGATGGC CAGGCTATGC TGTGGGATCT CAATGAAGGC
151 AAGCACCTCT ACACTTAGA TGGTGGGGAC ATCATCAATG CCTTGTGCTT
201 CAGCCCCAAC CGCTACTGGC TCTGCGCTGC CACTGGCCCC AGCATCAAGA
251 KCTGGGACTT GGAGGGCAAG ATCATTGTAG ATGATTGGCA AGAGTTATCA
301 GCACCAGCAG CAAGGCAGAG CCACCCCAGT GTACCTCTT GGCATGGTCT
351 GCTGATGGCC AGACTCTGTT TGCTGGCTAT ACAGACAAC TGGTGCGAGT
401 ATGGCAGGTA ACTATTGGTA CCCGSTAAAR GKTTTATGAC

ug311cons

1 ATTGGCGGC GTTTATTGG AGCAAATTCA GCTCCGGAG CTGGACGGTT
51 GAATGCAGGA GGAGTTCCAC CAATTGCTCC AATTCTTCC ATTGTTGCAG
101 CTTGGCCAAA ACGTTCAGTT GTTGGTGGGG TCAATCCAAG GGTTCCATCT
151 GGCATCATAG TGGCAGGTCC TGGAGGAGCT GGAGTACCAAG GTGGCACAGG
201 AGCA.GGGGG CATCGCGCCT CTATT.GTTT ATGCCCATAG CACCTCCAT
251 AGCCATTGG CCCATCCGTA TCTCTTGTTC TCTCGCATCA GGGAAAGGTT
301 CCTT.GAATC CTTCTGCTG TCGGCGCATC ATTCCTCTT GCTGTCGCCG
351 CATCTCKCC TCACGGCGCC TCGTKCCCTC KTCCTGCCTG AGTTCTAACT
401 GCYTTCGSTT CTGAACCYCT TKGKTATGCA GCTCCTCCAT TCTCCGAAGC
451 TCTTCTTGAC GTCTYATCAA ATCCYGCCTC ATTAGCATAA CCYGGKGCTC
501 WTGACGKGYA GCCTCCATCT CCATCTCCAG CNTTCTCNAC GAGCCTCCTN
551 GATGTNCCGA NCCACTNGAK CCTGCTGTTG CKTCTCCATCTCAATGAGTG
601 CCTTCCAGCG CATGGCATAAC TCATACTCAA AGGAGCVAVV NHGTGCAAAT
651 CTGGGTGGCT GTTCTCTC CTTGTGGAAT TGCTNNNNNT TGANNTCCAC
701 CACA

455/472

ug316cons

1 CGDTAGGCGA GCAGCGCTN NCCTGAAGCT GCGGGCATT CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TGCCTCGAGC AGCNNCCMRC TTGTTCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCSDDN VVMSAKTTTR
201 CGTGTCTCA NNAMCGTCTN ACRBCGACCT YGTTNCAANC AGGWCCNWGG
251 GCGGMAMGGA TCNACTGTNR WTCGGSYKYR ACKTTKTNNC ATSCTNGAVR
301 CTTTATCACT GATAAACATA SAT

ug317cons

1 GGAATTCCGC TGCCTCAAGC TGGCTTAAGT CCTGCTGAGA TTCAGCAACT
51 ATGGAAAGAA GTGACTGGAG TCCATAGTAT GGAAGACAAC GGCACTCAAGC
101 ATGGAGGGCT AGACCTCACG ACTAACAAATT CCTCCTCGAC TACCTCCTCC
151 ACCACGTCCA AAGCATC.AC CACCCATCAC ACATCATTCC ATAGTGAACG
201 GACAGTCT.T CAGTTCTGAA TGCAAGGCGG GACAGCTCAT CACATGAGGM
251 GACTGGGGCC TCGCACACTC TCTATGGCCA TGGAGTCTGC AAGTGNGCCA
301 GGCTGTGAAA GCATATGTGA AGATTTNG ACAGTTTTG AAGCACCTA
351 ACAATGAGCA TGCATTGGAT GACCGAAGCA CTGCCAATG TCGAGTGCAA
401 ATGCAGGTGG TACAGCAGT.TAGAAATACA GCTTCTAAG GMACGCGAAC
451 GT.CTTCAAG C.GATGATGA CCSACTTGCA CATGCGMCCC TCAGAGCCCA
501 AACCATCTCC CAAACCTCTA AATCTGGTGT CTAGTGTAC CATGTCGAAG
551 AACATGCTGG AGACATCCCC ACAGAGCTTA CCTCAAACCC CTACCACACC
601 AACGGCCCCA GTCACCCCGA TTACCCANGG ACCCTCTGGA ATTCC

456/472

ug320ft

1 GGAATTCAAA RCAGTAAC TC CATAGAGCAT CAGNMAAMGA VTCCATGAAC
51 GTACATGTTC CAAATDDGTN NGCCTCGGGA GTAGTCTTGG GAATGAGAGT
101 CCTTACGGTC CAACATGCTG GCAAACGTTA GCTAACATT AATGTCAGAN
151 MAGMGTGAGA CAMGCTTGTG CGCTTACMAG THAAMCAGTA GAGTTCTTGC
201 AGAGACAGAT TTSTGNAGGH NSTCAGTCAC GATGACAAAG TCTCACATAG
251 HHCTBGCAAG ACACCAGGGAC GATTGASRA

ug320ors

1 GGAATT.CGT ACAGTCACCA AAGTCACATT TCAGAGGAAA TCTTAATAGA
51 TCTTCTCACA GCCAAAAATG CAAGAACGCAC ACATTTATA GTTTTNNNGTT
101 TGTATCTCAG AGCCTCAGTC CATAAGAAC AAAGTCAGCC CAACAAAATC
151 AGTTCAAGGA AAACAAAAGT TAATTGCTT GGGCTTCCTA GCTAACACTT
201 GGCTATTTTC CCACTCAGGT GGAGGAGTGT GTAATTCTGC CAGTGCCCGG
251 GAGCTGAGCA CCCAGGBTAA AACACACAAA AVMACACAAG NTTAGGNTCC
301 TGGTGNCNTKA GAAAGTTACA GTTAGAGCGG AGGCTKCTKA CAGCCTGGRN
351 GTTCCTGGRA TRATCAMAAC NTCCAGCANG CACAACCTTG ACTTACAATT
401 GRCAGCTCTG CTCTACTCTG GGGTCTGAAA ACCCCAGAGA GGCGCAAAGC
451 TGACTCTAAG AGGCAAGGTC TGTCTTGCTG TTGTTCTATT GCCACGAAGA
501 GACACCATGA CCAAGGCAAC TTTGAAAGCA TTTAATTGG GGGKTCATGG
551 ATCCAAGGGG

ug334ft

1 GGAATTCGTT TTBYTTTTTT TTTTTTTTT TTVGGTATA ACACAACAKT
51 KRRTAADCTA TTACAATWTW TCATGAACAA GGTAATCAC TTGAGTAAC

457/472

ug334ors

1 GGAATTCTG.C GTCGGACCTN GCGGAGCCCA GGATGGTGTT G.CTCGAGAG
51 CGAGCAGTTC CTGACGGAGC TGACCAGGCT CTTCCAGAAG TGCCGCTCGT
101 CGGGCAGCGT GTTCATCACCC CTCAGAAAT ATGACGGTCG CACCAAACCT
151 ATCCCGAGGA AGAGTTCTGT GGAGGGCCTC GAGCCTGCAG AAAACAAGTG
201 TCTGTTGAGA GCCACGGATG GGAAAMGGAA GAHCAGCACC GTGGTGAGCT
251 CCAAAGAAGT GAACAAGTTT CAGATGGCCT ATTCAAATCT ACTGAGAGCC
301 AACATGGACG GG.CTGAAGA AGAGGGACAA GAAGAACAAAG AGTAAGAHGW
351 GCAAACYAGC ACAGTGNACA GGYGNTGGCT GCTACCAACC AGSTGNCACA
401 ANGTNCATT TTNCNNNCTC NTNGTTGCT RVTTNCAGC AMCTSTGTAT
451 GTAACTGTTT CCACGGAAGG GTCCTTAAG AGAGAAGGAC TGGGATGGGC
501 ATGGGCTAGT TGTBGTAAAGA CGCCAATTT SATTGTGCYGTGTGGCTGG
551 ATATTCTTAG ATTCCAGCCG TA

ug335ors

1 GGAATTCCAT TGGCAATTTC TTTTCCAAT TCCATAACTT TATTCAATTBC
51 CAA.AG.AGA GCTGGTTTC ATCAATAGGC AAACTTGTT CCTGACGAAT
101 CAGTCTGGCC ACAGAAATCA TAAAATCC.A CATATGCTGT GCAAGCCTCT
151 TTATAT

ug335t

1 GGTGGATTCC TTCCCTTAATA GTGTTATTVT GTTTGTTCT ATGVTTGTCC
51 CCCTCCCCCTT TTCTTGAGGC AGCGTCTCAC TCTGTAGCCC AGACTTGACC
101 TGGAACTCAG AGCAATCCTC CTGCCTCAGC CTCCCAAGGG CTAGGATCAC
151 AGGCGTGCAG CACCACGCC AGCCTCTTA TATTRGRRD DTTTTTTCT
201 TGCTTWATT TGATTTTCT TTTCTTACA AATAGAATTA SCACCCTT

ug353ft

1 GGAANTCCGG CTCGAGCGGC CGCTTTTTT TTTCTCTCT CTCTCAGCCT
51 TCTGGTTATC GTTACATGRG AACATCAGAC ATACTARRGG GG

458/472

ug353ors

1 GGAATTCTGGG GGAGAAAGAG AGGGAGGGAG AWWGWDAGAK AKAGAGAGAK
51 AKAKATCTTD TTCTYCTGGC ACAATATTWW YTAKTTNNNN DTDWGCTNNA
101 AACTKTTCT NGTATTTWT KACAWYMRGG RAATTCTTC CTCTCTAGGC
151 AGATTGCCAA AAACAACATAG AAGCTAAATG CCTGTGCCTT CTGCTTCTAC
201 GACACACCAC TCCGTCTTGT TCAGTTCAA CTAGCGTCGC TCTAAAAGGA
251 CAAAAAAACTT CTTGTTTTTC TAAATAAAAC ATAAATGGCC CAGAATTGAA
301 ATTGCCGATC TTAAAATTT AAGTGACTGA AGATTCTATT AATTCTGGCA
351 ATAAAATCAT TAAAAACAAA ACAGGTTGCA TAAGACTTT AAACAATTCA
401 TTCACAGGCA TGAGAATTAA AGGTTCTTT TAAAATATAA AATGCTAAAAA
451 CAATAAGTCT AACAGGAGAA TATGAATAAT ACMATATTCT AAGAAAAAAA
501 CCCACAAAGA CAAACATGAC ATTTCATTCA TAGCTCATTCA AAATAAACCA
551 AGGATTAAC CTTAGTTTA ACCTGTTAAT TTTCTTTT RYTTTAGTAT
601 GTCTGATGTC DCATGTACGR TARCCAGAAG GCC

ug354cons

1 GGAATTCAAGG AATTTVBYW NVCWVDSCWR MYYCMYKKY SKYMTCCGMC
51 TCCTCGGGGG CMNCTCCTCT CCTAGTGCCA AAGACATCAV GANAATVCTN
101 GACAGCGTGG GCATCGAACGC GGACGATGAT CGGCTCAACA AGGTCATCAG
151 TGAGCTGAAT GGAAAGNNCA TTGDGGNTGT CATCGNTCAG GGTGTTGGCA
201 AGCTGCCAG TGTGCCTGCT GGTGGGGCTG TGGCTGTTTC TGCTGCCCT
251 GGCTCTGCAG CACCTGCTGC TGTTCTGCC CCCGCTGCAG CAGAGGAGAA
301 GAAAGATGAG AAGAAGGAGG AGTCCGAGGA GTCGGATGAC GACATGGGAT
351 TTGGCTTGTGTT TGATTAAATT CCTGCTCCCCCT.GCAVATAA AGTCBTTT.A
401 TGTAAAAAAA AAAAAAAAAGCGGCCGTC GAGCCGGTGA ATTCC

459/472

ug357ft

1 GGAATTCGTG AGCAGAAAGC AATGAACATA GATGGTATAC ATACTGTATG
51 BSTGTACTVG CTACAVGRGA CATAACAMGCA TGTCATCGA AGACTTGAAG
101 AGTTCTAAAG CAGCTTACAT ACCAGCTCAC CTGTCCTGAC TTCAGTTAAA
151 TVTVGSCTA TGNTBCCAAC AACAGGGGAA AMCAGACTAT ACGGTGATTG
201 TCCTCAGMGT GTCTGTTTTCCTA

ug357ors

1 GGAATTCGTC TTCAACGGCT TCTGTAAATC TCGGTGACCC CACAAGGCCT
51 ACTGAAGGAG ATTACTTATC GTACAGAGAG TTACATTCAA TGGGAAGAAC
101 TCCAGTCATG TCAGGATCAC AGAGACCTCT TTCTGCACGA GCGTACAGCA
151 TCGATGGCCC AAATACATCC AGGCCTCAGA GTGCCCGTCC CTCTATTAAT
201 GRANNVCCAG AGAGAACTAT GTCAGNTAGT GANTTCWATY WCTNCACGGA
251 CNTAGTCCTT CAAAAGGACC AAATACAAGG KTCGGGTCTG AACATNTCTC
301 TGTTAGADCC YCCAKGDRWA AGCAAGGTTTC CTCATGACTG GCAGGANCNA
351 GTACTACGAC ACATTGAGGC CNAAAWGTTA GAAAAGGTAA TTBAACTGAG
401 TTTTCATTCTCTTWCTTAA TTTWTTTC

ug371f

1 GGAATTCAAC THATTKKACT ATBSVNVCBV SVANCACTDG TKCTGCTGC.
51 ..TGCTGCTG CTGCTGCTGCTGCTGCA GCAGCAGCAG CAGCAGCAGC
101 AGCAGCAGCA GCAGCAGCAG CAGCTACAVC GGCKCACACA

460/472

ug371cons

1 GGAATTNCCC GGCCCTGGCA CAGAGGACTA GGTGTGAGAG TGTGAGGTTCT
51 CCACCCCCAC CTTTCCTGCN GCBGCTCCCT CCCCCSNGAC ACAGGCCACCC
101 TCCGTNGCTC ACCBBCTGGG AGCTTGTTCG TTCTTGTTCAGG BGC GTAA
151 TTBCGACACT CTCTAGGGCG CAGGGAGCCC TGATTTACAT ATTTCTCYNN
201 BGAGTBCBTT CCNNCTGGTA GGGATTNNNC TCTCTTBGGT TCTGACACCA
251 NGGNACAAGA GTBCARACNN TNNGAAAAAA CGACTYCCAG GAGCTAGCNT
301 TGGCGNTGGG CCTTGGTACC CNATTAGGCC TTTNYTTCTT CCAGGTTTTT
351 CCGCTCNNT SYKTCCCKYC TTTCTTGCT TACTYCTCAC TCTTCTYCCT
401 TCTCTCTCCT GTCTTCCYCT CTYCCCTTCC TCGCCTCCAT CCTGCKKTCT
451 CKCCTKTCTC CAGTCNKTC TAGTRCCTCC ATCCTTCCC TTTACTCTCT
501 CTCTNWCTCT MYCTCTCTCT CTCTCACACA CACACACACA CACCACACTA
551 GTGTTCTKKD AATWGTBAAT HGTGATCCCC CCTGCGCCTC CCTCTCTCGG
601 CCCYCCCCCT CC

ug440f

1 GGAATTCCGG CTCGAGCGGA CGCTTTTTT TTTTTTTTYT

ug440rs

1 GGAATTCTT AATTCATCT AGCCTCTGGC CCAGGAAGAG TGCACATTAA
51 AWGGGACTCA GAGAAATGCT GAGACACATC AAGAGCTGCT GGGCATCCAG
101 GAAGAACATG AGTGCAAATT TATCTTTCC TGATGGGTCG TCATCATCAA
151 TAATTACATG GHGAYCAGTC AACAAAATTK TAAAACCCGG HMCCAAGTTA
201 CAATCATGTG TTCTGTC

461/472

ug441ft

1 GGAANTCCTT ACCTCAGANC CCTCATACAG TGCACTGGTA CCAACACCTG
51 GGAAGGCAGC CCTGCAAAGG GGCCCTTCTC CTCCCTGAAC TATGTCTGAA
101 TCTTGAGTA TCTCATTGTG CCCAADATGC ATCTGGGAAT TGTGCAGAAA
151 GACGTTCAGA AAAGAGGGTG ATAMCAGAGA HHYCCCAGAAT AAGGGGACCA
201 ATGTATATGG BCYYYYCAMTC ACAGTTCTA TAGRSSCYBY BTAGACCTT
251 TBGTTGGGAA ACGCCCTACA TCTGGGCATA GCTTCCTTTT

ug441ors

1 GNAATTGAG TAGATTCCA GTGCTCACCA TGAGGGAAAC AATGTTACTA
51 TAMCDDDNCC TANTGNASGN NNNNNNNNGC CNGNGGTAAA CNGNTAGAGG
101 NTCCTCTGNT NCANTGTNCT TTAMACAYMR YTWSRGTAGA CAGCAATGCT
151 CTTTACCTAG CTTAGTGTTC TGAWKGSMAA ATATTGTATA TTGTGATAAT
201 TATGTCCTAT TTATTTGAGA TTCTTGTAA AAATTTAAAA AACAAAAAAA
251 CAAATDAAAAA TTTTTTGCT ATGCCCTAGA TGTAGGGCTT TTTTTCCAA
301 CCAAAGGTCT ACAAAAGTTT CTATAGAAAC TGTGATTG

ug482ft

1 GGAATTGGC TTCAAAACAC CATGTAACAT CTTCAAAAGA AAAAVANNTT
51 TWWWWWMCTCA AACGAATCAG AAATGTAAAT CCAGGTCCAC GAACCCACAG
101 TTAGGCCAG TGGAGTGAGA GGGTCCAGGG AATAGGGGGT GGGGGGAAGA
151 HAGSNAGCCA AAGTCTCCTG AGGCTCCCT CAGATGTGTA GAAAAATTAA
201 AGATAACYCC AAT

462/472

ug093ors

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAACATCTA GGTGCAGAAG
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAATGCAA
101 AGGATCCTAA CTCAAAACAT CCAGGTAATC CAGGACACAA TGAGAAGACC
151 AACCTACGG ATAATAGGAA TTVATGAGAA TGAAGATTTC CAACTTAAAG
201 GGCCAGCTAA TATCTTCAMC AAAATAATAG AMGAVMMCTT CCCAACATA
251 AAAVVMGAGA TGCCCATGAT CATAAGAM GCCTACAGAA CTCCAAATAG
301 ACTGGACCAG AAAAGRAATT CCTCCAACA CATAATAATC AGRACAACA

ug096f

1 TCTAGATGCA TGCTYVGCG GCCGCCAGTG TGGTGGATT CCCGGTCTCG
51 AGCGGCCGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTT

ug096ors

1 GGAATTCGTG ATCATGAAGC CTAGTDCGCT CATTACACAA BBBGGGGGGA
51 GGDCTCAGGA CCTCTCCACC CCAGGAGTCA TTCCCTGTG .TGCTGTGGA
101 ACTAATTGA AAAGTAAAGT CCAAGGAAAC ACTGCTCTGT TTCTGAGACA
151 TGAAGGAAAT GAAAACACAA GACAAAGCAA AGAGC.TGCG CATTCTCTGG
201 CCCACGCACC GCGAGAGAGT GCCCAAGGTC AGCCATCACC CACTAGTGT
251 AACTGACCCC AAGTTAGCTC CCCAGCGAGC AGGCTCCAAA CACCCCCATC
301 CTTCCTTCT ACAGGAGGTT GTGAATAAAA TCACCCCTTT CCCTCAGTAC
351 CACATCTCTT AACTTATCT RCCCAGCNAT GGGGTGAGCA GCCAGACTYN
401 GATCTKGTAAC MACTTACATA ACATAATTG AGTGTGAGA ATACAGCTCA
451 GAGGTAGAGC ACACTTGCCT AGTGTCTATG AGCCACAGGC CCATTCCCAG
501 TATCATATAC ACAASGATA ATTTSTWGA CTA

463/472

ug101orsft

1 GGAATTCCGC TTG.ACCTGC CTTGGGGTAT GGGTACTGCT TTGCTTG
51 GTACAGTGCT CCAGTAAACC GAGGTATGAT CATGTTAGGC ACCAACGAGT
101 CATTATCAT CAGGAAGGCA AGTCTCTCTC CATCGGGGGA CCACCAGTGG
151 GCGATATGAG AATGCAGAAG TTCTTCTAGA ATAAATGAGT GTTATNNYAC
201 ATCAAATTCA TATAACCAGT CAGCAATCCC ATTAAAAATA ATGCCTTCCT
251 TTCCTGAAGA TGTTAGTCGT AAAGAACTGC TCTTGATATC AGGTTGATAG
301 TAGATATTGT TTTCAAAAAT ATAAATCAGC TGCTGTCCTT GCACACCCA
351 GGCG.CATA CTGCAACAC.TGAGTCCTCA ACTTCTGGGG GA.TTCAA.C
401 TCCCACANHT TCCCCAGATN NAAAGTATGT TCDCCTGGCA TACGACGHYC
451 AAGCRGHKDC ATACTCATTA CCGCTTCATA TTGATTACAA CATAACACT
501 GGA

464/472

ug102cons

1 GGAATTCCCTC TCTCTCTCTC TCTCTCTCTT TTTCTCTCTC GCTCTCTGCC
51 TTTCTCTGTC TCTACTCCCT CAACTCTCTT CCCCATGCC TGAATAACCT
101 CTATTCTATA CTACAKGRCT GGKCCCTCAG GGGGAAGGGG TGCTCAGCA
151 TGGGCCCGCA GAGGTACCCC CTTCCCCACA CCTGATGGCA CCAAACATAT
201 TCCTTCTCTC CTTCTCTCCC TGCTCATCGC TTGAGGTAGC ATGGTTCTCT
251 CTGGGAAGCT CTGGGKGCTG AGTCAGGGCT CTGCNTCTGG CCCYCCCTG
301 AAACTCCATC AGAATCTACA TGGCCCTGGR CTGTGGCAAT TKKCTTCTTG
351 GDCCCYAAC AAGACTTWAAG NKYCTYGAAG GGCAAGGTTT CTTCCCACTA
401 AATCCAGCAC AGGGCAAGAC ACATAGTAGG TGTTCCACAA GCACCTAATG
451 AGTGCTCTGG GTTGTGGGA TTTBYYBBYG TTTGTYTGT TTGGTTTGG
501 GKTTTGTGG TTKGTTWGTT TGTTTAGYNS GTTTGCAAC AAKGTCTCAA
551 GTGACATAAC CCAGGGTGGC TTCAACAATG TKAACAAAGG GTCYYCYKSC
601 YYSRMCYKKY MARKKSYKGG RNNMMMRGSS SMMCMWKSCY KGKSYWWWWK
651 GRKTKRRCCC AGGGCCTCAG GCATGCGGT CAAGCACTCT ACCAACAGRT
701 CTGCATCCCC AAACCCCCAA CAGACAACTC TTGGTGCCCC GAGTGTGCCA
751 GGCCTCCCTG GTAGTACTGG GCAGACAGCA GTCCTGCTC TTGGCCTTGC
801 TCCTGCTGGA AGCCTCCCTT GACTCDTCA GGCKTTACC TGAKTCCCTAC
851 TCTATGTCAC TCATCAAACC TCTGCGCCA AGAGGARCNG YCCTGGAAA
901 ACACAGGAGG CGGCGACACA AACTGTGCC TTTCCTCGCT GGCCCCAAGG
951 AACTCAGCA GGGGTTGCTG GTACACCKTC AACCKTTGT CTCTGCDDD
1001 KKTKTCTCTC BTCTTGTGCC TTTGAGGTTT CATGGTTGTG GTGGTTGGG
1051 TTTCTGTGG TCGGTTGGCA GTAAGGTCTS MNNCATACCC AGTGTGTTG
1101 DTKCKGCAAA TGCNTATATA TAATGGNAAA TCC

465/472

ug482ors

1 GGAATTCCCG GCTCGAGCGG CCCCTTTT TTGGGGGGGA GACGGGGGCT
51 CAGGGTGTGA ACATGAGGTG AGACCTGGCA TGGCAGGGCT GAGTCGTGCC
101 TGCTGTCAGC CCCTCTCTGT CCTTCCCGAG GCTGAGGGGG GCCTCAAGCT
151 CCCTTCCCCA GCAGAGCCCC ACCCACCCAC CCCGCCTTCA AAGCCCCTT
201 TGGAGAGTTA ACTGTCCGTG TGAGGCGCTC ACTCAACCAA TAAGCCCCAA
251 NGAACTCAAA GCAATAATCT TCGTTACTGA GATGCGCGGC TGTTAGTGTT
301 TNGTTGTTGG KTTTGNNTT TTTGGGKTTT

ug484ft

1 GGAATTCTTT ATATCATTKK VNKNCCATAV GGBGTCATCT ATGTNBDAAT
51 TTWTYNNNNC ACATATBSSG CTCATTACAC TTATATCGGG TCAACACAGT
101 GGCAGATGNT CATCAAATGT CTTTCATTCT AACACAGTGG CAGATGTTAT
151 CAGATGTCTT TCTTCTAAC AGTTACAAGG CCTTGTCTCT ACCTCTCCG
201 CTTCCATGAC CCAGTTTGG TGATTCTAAT TTAA

ug484ors

1 GGAATTCGTA ATCCACTAAT ATTATGGGT GTTATCACAA GTATAMCAAT
51 NNGNTVGTCA ACTAC..AAA DCAATAAANC AGTTGCCAA ATAGCAGCGT
101 ACGCCCTACG TTAGCACAGC CAGGTATAAA GATCCGTAGC CACACCAAAC
151 TCTACAAC TG ACTGTTAAGT GCCATAACAG TAAATAGAGG ACAACCCAT
201 GTTCAGGGAT TAGTGAGAGG GTCCAGATGT TAGAAGCTGC GCCTCCTCCC
251 CACTCCTTGT ACTCACTCCA TCACCTAACG CAACTAAAGC GTGTTCTTCT
301 TTCCCTTTCH CTCCTANTCT GACAATGTAN TGCTGATATT AATTTGAAGV
351 CAATAGCCCC AACTGCCTTG AAAACAAAGA AGTATTATGA GTTGTGGAA
401 CACATGGGKA TTAAAAAAC

466/472

ug485ors

1 GGAATTCGCG CGCTGTCTTC CCGCTCGCGT CAGGGACCTG CCCGACTCAG
51 CGGCCGCCAT GGCATCAGAT GAAGGCAAGC TTTTCGTGGG AGGACTCAGC
101 TTCGACACCA ACGAGCAGGC GCTGGAGCAG GTCTTCTCCA AGTATGGGCA
151 GATCTCCGAA GTGGTGGTGG TAAAGGACAG GKAGNACCCA NGCGATCCCG
201 AGGCTTGGG TTTSTCACCT TTKAAAATAT CGANTGACGC TAAGGANCGC
251 CATGATGGCN NTATNGAANT KGGNAAGTCT KTGGACGVGC NGGCARATCA
301 KAGTTGACCA GGCTNGRCAA GTCTTCTGAC MACCGGTYCC GAGGATAACCG
351 GGGTGGCTCT GCTGGAGGCC GGGGCTTTT CCGTGGGGGA CGAACGCCGGG
401 GCCGAGGGTT CTCCAGAGGA GGAGGAGACC GGGGCTATGG AGGTGGCCGC
451 TTTGAGTCCC GGAGTGGGGG TTATGGAGGC TCCAGAGACT ACTATGCCAG
501 CCGGAGTCAG GGTGGCAGCT ATGGTTATCG GAGCTGGGA GGGTCCTACA
551 GAGACAGCTA TGACAGTTAT GCTACACACA ACGGGTAAAG CCCTCCGCGT
601 CCAGADYCGT CCTTCCATGG CT

ug485t

1 CAAGTTTG TTGAATTCTT CGGAGCGGCC TTTTTTTTTT TTTTTTTTTT
51 TTTTYYYYYY YYYYTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
101 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTAAAWWA
151 AAA

467/472

ug491ft

1 GGAATTCCGA GGCGCCACAG CCGCTCCCGG ACTCGGAGCA GCCGCCGTCT
51 GCCGCAGGAGC TGGAGTCTTC GGCGAAGAA TGCAGCTGGG CCAGGGCTTT
101 CTCCCTCCAG GATCTGCGAG CCGTGCATCA GCAGCTGTGC TCGGTAAACT
151 CCCAGCTGGA GCCGTGTCTG CCGGTGTTCC CCGAAGAGCC GTCAGGNATG
201 TGGACGGTGC TGTTTGGGGG CGNCCCCGAG ATGACCGAGC AGGAGATCGA
251 CGCTCTATGT TACCAACTCC AGGTCTACCT GGGCCACGGS CTGGACACGT
301 GTGGCTGGAA GATCCTTCT CAGGTTCTTT TCACCGAGAC GGATGATCCG
351 GAGGAGTATT ACGAAAGCCT CAGCGAGCTG CGGCAGAAGG GCTATGAAGA
401 GGTGCTTCAG CGGGCCAGGA GGCGCATCCA GGAGATGCAA AGCTTACAGG
451 GTGGTACAGA AGCTATAGCT CGATTGGMTC AGCTGGAATC TGACTACTAT
501 GAYCTGCAAC TTCAGTTGTA TGAAGTACAG TTTGAAATCT TGAAGTGTGA
551 AGAGTTGTTA TTAACTGCAC AGCTGGAGAG CATCAAGAGA CTTATATCAG
601 ACT

ug491ors

1 GGAATTCGTT TTTGTACTGT TAACATTAAC AATTTTTTT TTTTWBBS
51 ARRVGATTCC AGGCTTTCTT GACACTATCT TTACTCTTTA TANACTCAGG
101 AGGTGGTGCT CCAAGGGCAA AGAATATTAC WRCWGACTTA GCCAATTAA
151 CTGCTCCAGC TGGGAATACA CTCTAACAG AACCCCTACA ATCAGAGTCC
201 TATGGCTCTC TCTGAAGAGC AATGTAAATC AAACATTAGC ACATTTCTAT
251 TACCTGCTTA AATGTTCGAA GTCTATCCAG TGTCTCTGT CTCTCTTGGC
301 TAACCCAGGC ACTTTTTCTT TCCTCTTCAT CATGCAATT GTCTCTCTT
351 ATTTGTATTG TATGATGGGC TCTATATTCA TCTTCACTCT GAAA

468/472

ug493ft

1 GGAATTNCCC GGCTCGAGCG GCCACTTTT TTTTYTTTTT TTTTWWTTTT
51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
101 TTTTTTTTT SCCTTGCCCC GTTTTHTTB TTTTAAAHH TBKTGSGGDK
151 TYACCCGAAM RGGCMAGCCT TYMCACCCMG GGGGGTTWKT CCCCCAAAAGG
201 AGGGA

ug493ors

1 GGAATTCGNT ATTTATATAT AVGCGATAMT NBSGGTTGK NACATTAGTT
51 TTAAAAAAAGG GAAAGTHTTG NTYTGTATAN NNYGTTACCT TTTACAGAAT
101 NHAAGNATT AACATTAAGN ACCATGTAAC CGAGACACTT GATCTGACAC
151 AGGGGCMGTC GGGAAACCGA TGACTGCAGT AATCACCACT GTACAAAAAT
201 GTTAGTGGGT TTTGTGCACG TAAAATGCAC ACTTCCATT CCTGTCAGTT
251 TCTTATTGAA VAA

ug494cons

1 GGAATTCTTT AMVTGTTTAC CATCTACTCG TGCTGAATCC TTCCAAGGAG
51 ATTGCTCCAG CGTATATCTC CAGGTCTCG CTTGCTCCT TTTACCAAAA
101 AATGCAAAAC ACAATTCCAT CGTGCATCTT AAGGGCTCCA ATCGTAAAAA
151 ATAGGAAAAAA AATTCTTGG AATAGCCAAT TAAGTTGAAT GAAAAAAAAN
201 TCCNANCACG AATGCGGTTT GGTTGGGCA GGAAGGAATC CACTCCTATG
251 TKCCTGGTAA TCTGATCCCG CNCCATGAAT CCTGGTAATT CATCCTCCCT
301 ATCCTATCCA CATTATGATT TGAATCCAAT GATCCTACTC CAGTGATTGA
351 CAA.GTGTGC ATTGCCTATG TTTGTTATV CBBKAATTAC AAAACTATTT
401 TTTTTTAACT TCCTAAGAATTCC

469/472

ug503ft

1 GGTGGAATTC GGTCGAGCGG CCGCNTTTT TTTTTTTTT TTTHWWHHWW
51 MMMMMMHHH BBBBKKKNNN KKKKKTTTT TWDGGWACAA CAAGDTKTA
101 DGNTTTTTT WCTATTNGGG KAWAAAMVGG TTTWAANGKT TTTWWWAARN
151 GGGTTTTNA

ug503r

1 SCAVMAHTTA CACTATATAC ACYAACCATC AWCAMTCTT TACCTATCTC
51 TTATCCACTA TTAACCTCCT TCAATTYYT TTTTAATTCT TTTTTTTGTA
101 CTACTCATGA TGTTTYTTC CCTCTCTTT TTTCTAATYT TTTTTTTCCC
151 AAYAYTTATA CTTAACATATA AAMTCTYGT TTTTCATT CY ACAAATDTY
201 TTGCTCTCCA WTTYTCATT CTTAAAATT CSGRCWTAA ATTAKCTTB
251 AACBATTGG CTTTTGCTC CKTTTKATT GTCCCTCATT KAKTCTCKG
301 WCCCATTGG

ug503s

1 GGAATTGTT TTTTTTTTT TTTTCCCTC TGTGGTCTAA GCTTGTGGGT
51 CCCAGACTTA GTTGAGATAA AGCTGGCTGT TATCTCAAAG TCTTCCTCAG
101 TTCCAGCCTG AGAACGGCA TCTAAGTCTT CAAACATTG GTGCTCGTT
151 TTATGCCCTC ATGAGCTTG ACCATTGCAT GCGTTCCAT CCCAGCTACA
201 GAACTTCAGT TTATAAGCAC ACAGTAACCA TTCCTCATTG CATGATGCC
251 TCAAATAAAA GGTGAATACA GTCTAT

ug505ft

1 GGAATYNGGA ..TBDRVARG VCBTTAGGAT GA.CTGTTG TATGGGAAGA
51 AGTTAGAGAC AATGGATTN A.DNACNGAT TTNNBGGATA AN.GCKTTGT
101 SATNNNN.NA GTANCAGGGA AGTAAGYCAT TTT.AGCCTA TN.CNTTAAG
151 V.GTGAA.CT ACAGGACAGT AANCTATATA

470/472

ug505ors

1 GGAATTCCCTC CAATCTACAC CTATACTTAA AAATCATGAA TCTGACTAGC
51 CATGCCATTG AAAACCACTC AGTACTAGAG GATGAACCAG TTTTCAATGT
101 TATCAGCCCT GGAAAACACG SCCAGCTCCC ACCCCCAGCA CATTCTANTT
151 TNGTTTAAC ATTTTATARR DDNBGNBATT DYHMKTGTGG CCATTTTGTT
201 GGGCARAAAG TTAAATGGCT TCCYTTTRAG RCTTGGTSC YGGGGCVADG
251 GGAGCACACC

ug506ft

1 GGAATTCAAC GGCTCGACCG GCCGCTTTB TBTHHBYYN YYNVT.CATN
51 CVDGNBYTTY GNNNNCTGTG CCTAGTAVTN NNGVNNBCCT AAVCTCACT
101 AGAACCTAT TBBVGTATGG YAMAHTYCT TSGTTCTAAA TYGGGTTKTT
151 TTGTCTTGGT TTYYTGTGTT TYCGTTTGT TTTGTTTGT TGTTAAGAGC
201 TAGA

ug506or

1 GGAATTCGAG GAATATCAAC TTAGTGCTAT TWTCACATCG TTCAGTCAA
51 CTTAGCCAGA GTTCCAACNC CCTACTTAAA ATTCAACTAG AAAGTTACCT
101 ACCAAGTACT AATTAGCATT ATAAGTCAG AGCCTGCAGC TCCAGGCCTT
151 TCAGTTAGTT GTTTACTAGA AAGGACAGTC TTAAGCCAGA TACAGTTMY
20 CATAAGANAH GTTAAAGMMT NCCAGTGAAG CAAGTTTTY CTTAGCCCT
251 AGATTCCMGG CAGNACTATT GAGCATAGAT AATYYCCCCC CCTCAGGCCA
301 GCTTTTT

471/472

ugs148oft

1 GGTGCAATT CCGDGCGGCC VTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTWWWWHN NBBDRNNNNN NNNTTTTT TTCACTGGNN ATATNTGNNT
101 TVTN.CCATC AGACATGCTG CAATHTVGV CATTYCCMCA GGGTWTAGCA
151 GTKTTAAAMA GTTGCAATT GAACAGCTGA CATGAATAAA CAAACAGTGG
201 GTAGGTGAAT AACCTGCAAA CGCGAGTTCT GGATTCACTT TTTGAGCTG
251 AGATGACAGA TTCAGCAGGA ACTCTGTAC

ugs148rs

1 GGAATTCC TTMGMGCAAG CCTGGGTCC AGAGCAGATG TATTCGATT
51 CTGACCTGA GTACGAGGGC CTGTCGATA AGMCTCCCCT GGAGGAGGGC
101 CACACTGCGC GTGCACCTAA GTCTGCATCC TCGGCTGGCA GGAAATCTGG
151 TCGGCGTTCG AGTGGGAGGG CTCCGGGAC CCGSGCTGGG CTGTCCGAA
201 AGGCCSSCCS GTGCNGTCCA GANSCCMAAG GAAGAAGAGC CTCCAGTTGG
251 AAGAGGGCTG CTACCTTGAC CACTGCCYG AACCTBTGG CA

ugs186oft

1 GGAATTCA CTTAAAAGA TTATTCTGTC TGCAAAGTTT AAAAAGTGT
51 GAAAAATATT CTATACATCT TGCTCTAGA ACGTCTCCAC TTTGACAGAT
101 CAGGTGACCC TCCTCATCAT CCTCTATACT CCTGGATCTT TTCCCTTC.GG
151 TGGCTTTCT GGAACGGCAA GTGGGCAGCA CCAAGATCGT CCAGCCAATC
201 AATATATCAG AGTGAATTCA GGGCAGAATA CGCAATTAT HCAGNSGGGG
251 AGATATTCA GCANTTCAGR TAAGCACCAG GCCACGRACA GTTGGCAGGM
301 GCAATTCAA AWTNMAGTCC CCAGRAATT ACAGGSCACA GTTTANKGTT
351 ACAGAAGRAA AAACATGGCA AGGMACAGAT TTTCAGATAA GATACTTAAM
401 GTGGCAATAG

472/472

ugs186s

1 ACTAGTACGG CGCAGSWGGT GGAATTAGA AATDACTACT GCGAAGGATA
51 TGTTCCAAGA CATTACCATA GAGACGTTGA AAGCACTTAC CGGATCCATT
101 GCAGTAAATC CTCAGTCAGG AGCAGGAGAR GCAGCCSTAA GAGAAAGCGT
151 AATAGACCT GTGCAAGTCA TCAGTCGCAT TCGGTTATGA GTSGTTGTT
201 TTAWATTGG AATGGATTGA TTGTAAAGCT CTGAAAGG

ugs194oft

1 GGAATTCGGG GSCTAAAGTC TGTCTACATT ACAGATGGGG CTGGACTGTA
51 CTCTGGTGT CTGGGGGATG TGGGWKAGAT GAGAAGVRGA AGGCAGCTTG
101 GCCTGTCCC CCTATTCAAG TGCCCTCCCTA AAGCAGGATN MGNAAGCTA
151 GGHMCCTAGC CAATAAGCAG AGCCTTSGC TGAVGGAGAA AGTAGTCACC
201 CATGAGAAAT CCAACCACAA GTTGTGCCA CAGGCAGGTG AATATGAGGT
251 CTCCCTGGGG TGTTGGACTC CCTGGACTAA GAAAATTAAT ACNAHHHHH
301 TGACACTGCA GTACCYCTAT GGAGAMMVMC NTMTACAGTT TTAGTTGGT
351 AGGGTATCAA GTCACNTGTA CCAATGTGAC CTGTTCAATCT

ugs194rs

1 GCAGCTATTG GBCATCTCGM CCTCMGCTWT GCSACMGCTT GGYMCSNRST
51 SGRKCCACTA GTAACGGNCG CCAGTGTGGG GHATTCCCCT TTTGGYYGT
101 TCTGAAGCTT GDTCTTCAWT CTTTACCTG GVCTCAAATG NTTGVCTCCC
151 HTCMATHAAC CTCTTVCTT TNGTTGGTGC GGNGAGTTCT CTTTCCCTT
201 TCCCTTCTT ATGGCAGCCC CTACCTTGGC AACTCCACTC CACTCCACCA
251 GGTTTGTCTT CCCAGATAGC AGCTGGCAAG TTCTCCAAGG CTCAGGGTCC
301 TAAGGCTCAG TTTGCAGTGT GGGCAGTGTG TAGGACCAGC ATAATCTTAT
351 TCTTGTGCTT TCCACAACAC CACATCCCCT AGTGGTTCGT GCGCCCCCTG
401 AAGCTCTCCA TAGAGCTKGT TGACACTGCC ACTYAGGGCC TATGTCCCTT